ICD-UX71/UX71F/UX81/ UX81F/UX91F

SERVICE MANUAL

Ver. 1.0 2008.10

Photo: ICD-UX71

AEP Model
ICD-UX71/UX71F/UX81/UX81F
E Model
Chinese Model
ICD-UX71F/UX81F/UX91F
Latin American Model
ICD-UX71/UX71F/UX81/UX81F

SPECIFICATIONS

IC recorder section

Capacity (User available capacity)
ICD-UX71/UX71F:
1 GB (approx. 986 MB =1,034,354,688 Byte)
ICD-UX81/UX81F:
2 GB (approx. 1.92 GB =2,072,313,856 Byte)
ICD-UX91F:
4 GB (approx. 3.86 GB =4,147,806,208 Byte)
A part of the memory capacity is used as a management area.

Recording time*1

ICD-UX71/UX71F

ST mode	STSP mode	STLP mode
11 hr. 55 min.	17 hr. 55 min.	47 hr. 50 min.

SP mode	LP mode
71 hr. 45 min.	287 hr. 15 min.

ICD-UX81/UX81F

ST mode	STSP mode	STLP mode
23 hr. 55 min.	35 hr. 55 min.	95 hr. 55 min.

SP mode	LP mode
143 hr. 50 min.	575 hr. 35 min.

ICD-UX91F

ST mode	STSP mode	STLP mode
47 hr. 55 min.	72 hr.	192 hr.

SP mode	LP mode
288 hr.	1152 hr. 5 min.

(hr. : hours/min. : minutes)

*1 When you are going to record continuously for a long time, you may have to replace the battery with a new one in the midst of recording.

Frequency range
- ST : 40 Hz - 20,000 Hz
- STSP : 40 Hz - 15,000 Hz
- STLP : 60 Hz - 7,500 Hz
- SP : 60 Hz - 10,000 Hz
- LP : 60 Hz - 3,400 Hz

Bit rates and sampling frequencies for MP3 files*2
Bit rate: 32 - 320 kbps, VBR
Sampling frequencies: 16/22.05/24/32/44.1/48 kHz

*2 The playback of MP3 files recorded using the IC recorder is also supported.
Not all encoders are supported.

Bit rate and sampling frequencies*3 for WMA files
Bit rate: 32 - 192 kbps*4, VBR
Sampling frequencies: 44.1 kHz

*3 WMA Ver. 8 Class2A is compatible, however, MBR (Multi Bit Rate), Lossless, Professional, and Voice are not supported.
*4 The NoiseSubstitution function is not supported, therefore, playback becomes simple playback with 32 kbps bit rate.

FM radio section

Frequency range
87.5 - 108 MHz
IF 150 kHz

Antenna
Headphone cord antenna

General

Speaker
Approx. 10 mm dia.

Power output
90 mW

Input/Output
- Microphone jack (minijack, stereo)
  – input for plug in power, minimum input level 0.9 mV, 3 kilohms or lower impedance microphone
- Headphone jack (minijack, stereo)
  – output for 8 - 300 ohms headphones
- USB connector
  – High-Speed USB compatible

Playback speed control (DPC)
+100% to –50% (MP3)
0% to –50% (WMA)

Power requirements
One NH-AAA rechargeable battery (supplied): 1.2 V DC
One LR03 (size AAA) alkaline battery (not supplied): 1.5 V DC

Operating temperature
5˚C - 35˚C

– Continued on next page –

IC RECORDER

9-889-311-01
2008J04-1
© 2008.10
Sony Corporation
Audio&Video Business Group
Published by Sony Techno Create Corporation

SONY

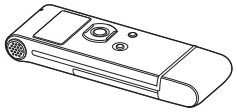
Dimensions (w/h/d) (not incl. projecting parts and controls) (JEITA)*5
34.4 × 99.0 × 13.4 mm

Mass (JEITA)*5
Approx. 48 g including NH-AAA rechargeable battery

*5 Measured value by the standard of JEITA (Japan Electronics and Information Technology Industries Association)

Supplied accessories

IC Recorder (1)

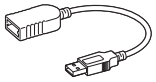


Remove the film on the display window before you use the IC recorder.

NH-AAA (size AAA) rechargeable battery (1) (Except Latin American model)

Stereo headphones (1)

USB connection support cable (1)



Carrying case (1)

Battery case (1) (Except Latin American model)

CD-ROM (1)
(The operating instructions are stored as PDF files.) (AEP, E model)

Operating Instructions

Design and specifications are subject to change without notice.

NOTES ON CHIP COMPONENT REPLACEMENT

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

FLEXIBLE CIRCUIT BOARD REPAIRING

- Keep the temperature of soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(**Caution:** Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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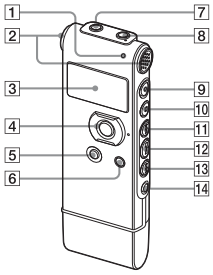
SECTION 1
GENERAL

This section is extracted from instruction manual.

Index to Parts and Controls

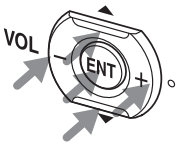
Refer to the pages indicated in parentheses for details.

Front

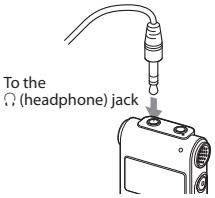


1 Operation indicator (17, 23, 24, 32, 39, 70, 74, 107)
2 Built-in microphones (stereo) (23)
3 Display window (10)
4 Control button*1 (▲, ▼/VOL (volume) +, –) /ENT (enter) button
5 DIVIDE button (31, 32, 56)
6 🗀 (folder)/MENU button (23, 39, 59, 60, 82)
7 ∩ (headphone) jack*2 (23, 25, 39, 40, 47, 48)
8 🎤 (microphone) jack (33, 35)
9 ● (record/pause) button (23, 25, 30, 33, 36, 38, 64, 89)
10 ■ (stop) button (18, 20, 23, 24, 39, 44, 47, 48, 50, 55, 59, 60, 82, 89, 107)
11 ▶▶| (cue/fast forward) button (39, 40, 41, 42, 56, 57, 82)
12 ▶■ (play/stop) button (25, 39, 42, 44, 47, 48, 50, 82)
13 |◀◀ (review/fast backward) button (25, 39, 40, 41, 42, 56, 57, 82)
14 ↻ (repeat) A-B button (39, 44)

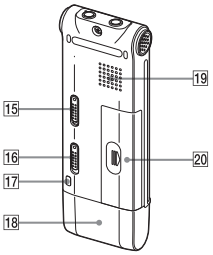
*1 **How to use the control button**
Press VOL – or + on the button to adjust the volume.
In the menu setting window or folder selection window, press ▲ or ▼ on the button to change the menu settings or to select the folder you want, and then press the center button (ENT) to confirm the setting.
In the FM reception window, press ▲ or ▼ to tune in a station, or to select a preset number.



*2 Connect the supplied or commercially available stereo headphones to the ∩ (headphone) jack. If unwanted noise is heard, wipe the headphones plug clean.

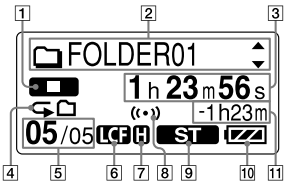


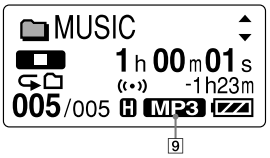
Rear



15 HOLD switch (22, 23, 24, 39, 40, 58)
16 DPC (SPEED CTRL) switch (45, 64)
17 Opening for a handstrap (A handstrap is not supplied.)
18 USB cap
19 Speaker
20 Battery compartment (13)

Display window





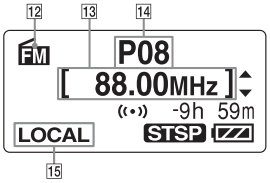
1 Operation mode indicator
Displays the following, depending on the current operation mode
■ : stop
▶ : playback
REC : recording
●II : recording standby/recording pause
REC VOR : recording with the VOR function
●II VOR : recording pause with the VOR function (flashing)
If you press ● (record/pause) to pause recording when "VOR" is set to "ON" in the menu, only "●II" flashes.
REC SYNC : Synchronized recording
●II SYNC : Flashes while synchronized recording is set to pause.
◀◀ ▶▶ : review/fast backward, cue/fast forward
|◀◀ ▶▶| : going backward/forward continuously

2 🗀 Folder name/♫ Message title name/👤 Artist name/🗋 File name indication
Press ▲ or ▼ of the control button to display a folder name, message title, artist name, and file name in sequence.
3 Elasped time/Remaining time/ Recording date and time indication
4 Repeat playback
↻ 1 : Appears when one message is played back repeatedly.
↻🗀 : Appears when messages in one folder are played back repeatedly.
↻ ALL : Appears when all the messages are played back repeatedly.
5 Selected message number/Total number of messages in the folder
6 LCF (Low Cut Filter) indicator
Appears when a folder for messages recorded using the IC recorder is selected and the LCF function is set to "ON" in the menu.
7 Microphone sensitivity indicator
Displays the microphone sensitivity.
H (high) : To record at a meeting or in a quiet/spacious place.
L (low) : To record for dictation or in a noisy place.
8 Alarm indicator
Appears when the alarm is set for a message.
9 Recording mode indicator
Displays the recording mode set using the menu when the IC recorder is in the stop mode, and displays the current recording mode when the IC recorder is in the playback or recording mode.
ST : Standard play stereo recording mode with high quality sound
STSP : Standard play stereo recording mode
STLP : Long play stereo recording mode
SP : Standard play monaural recording mode
LP : Long play monaural recording mode
Displays as follows when a file is transferred from the computer.
MP3 : MP3 files transferred
WMA : WMA files transferred

10 Remaining battery/Charging indicator
When a dry battery is used, the indicator shows the remaining battery power.
While charging the rechargeable battery an animation appears.

11 Remaining recording time indication
Displays the remaining recording time in hours, minutes, and seconds.
If there is more than 10 hours time remaining, the time is displayed in hours.
If there is more than 10 minutes and less than 10 hours time remaining, the time is displayed in hours and minutes.
If there is less than 10 minutes time remaining, the time is displayed in minutes and seconds.

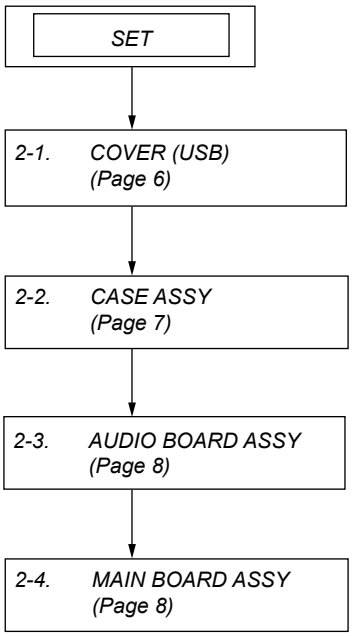
Display when listening to the FM radio (for ICD-UX71F/UX81F/UX91F only)



12 FM indicator
13 Radio frequency
14 Preset number
15 Receiver sensitivity

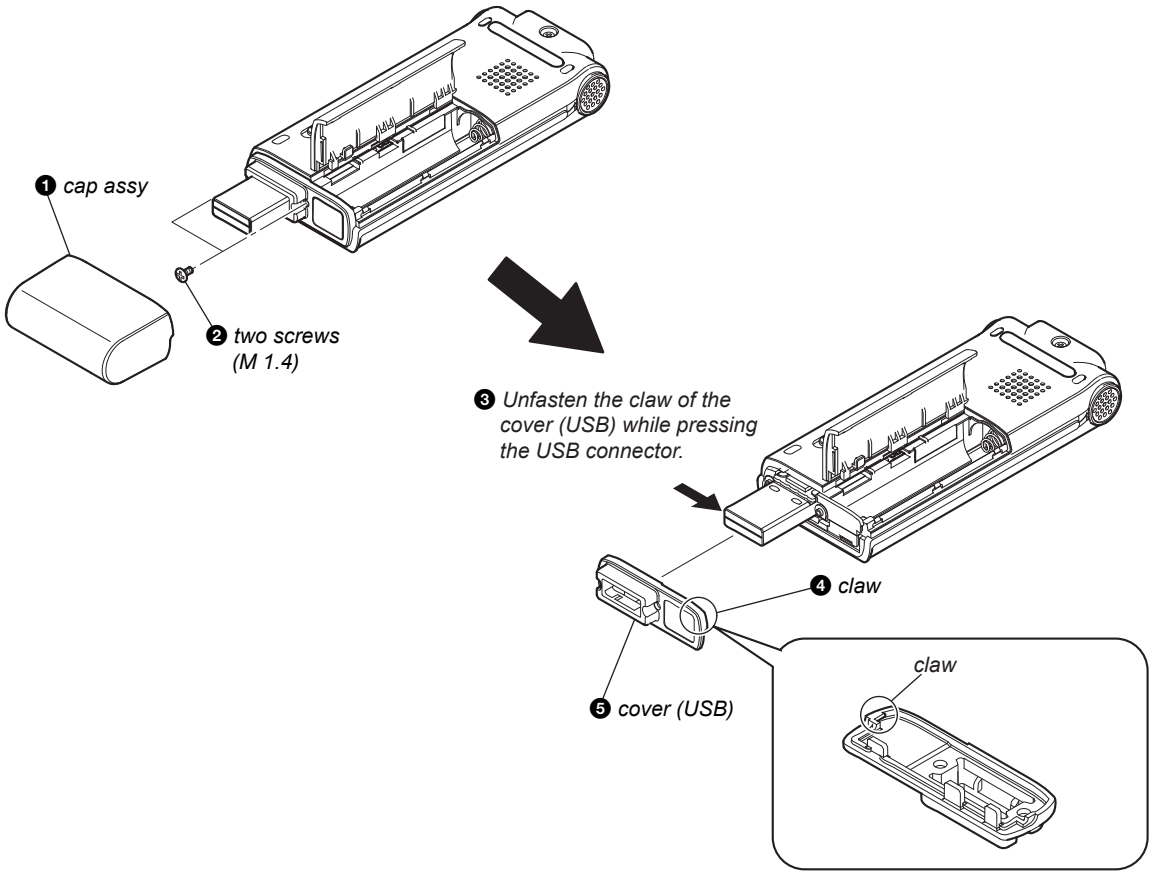
SECTION 2
DISASSEMBLY

- This set can be disassembled in the order shown below.

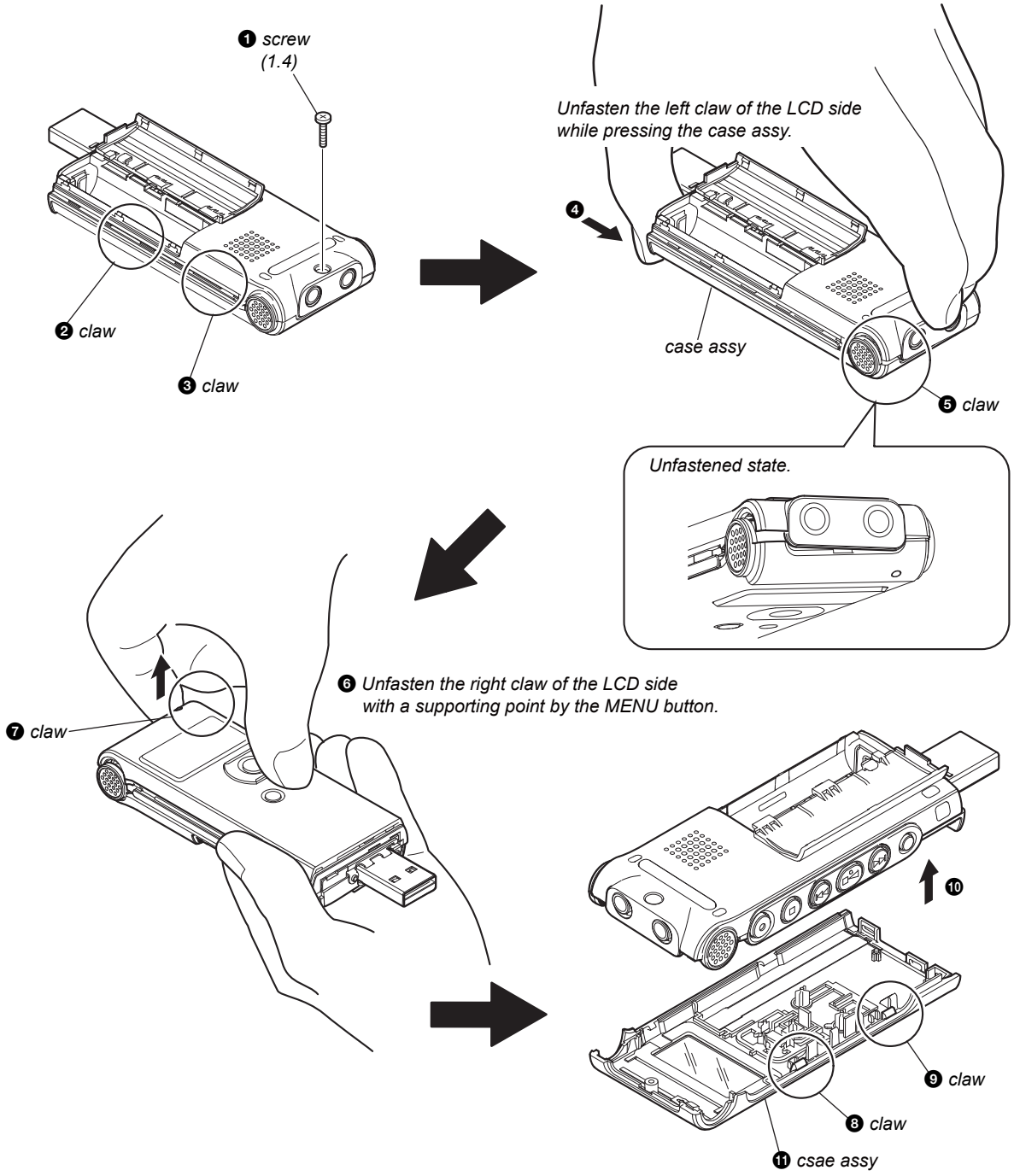


Note: Follow the disassembly procedure in the numerical order given.

2-1. COVER (USB)

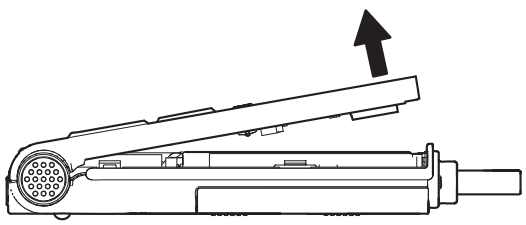


2-2. CASE ASSY

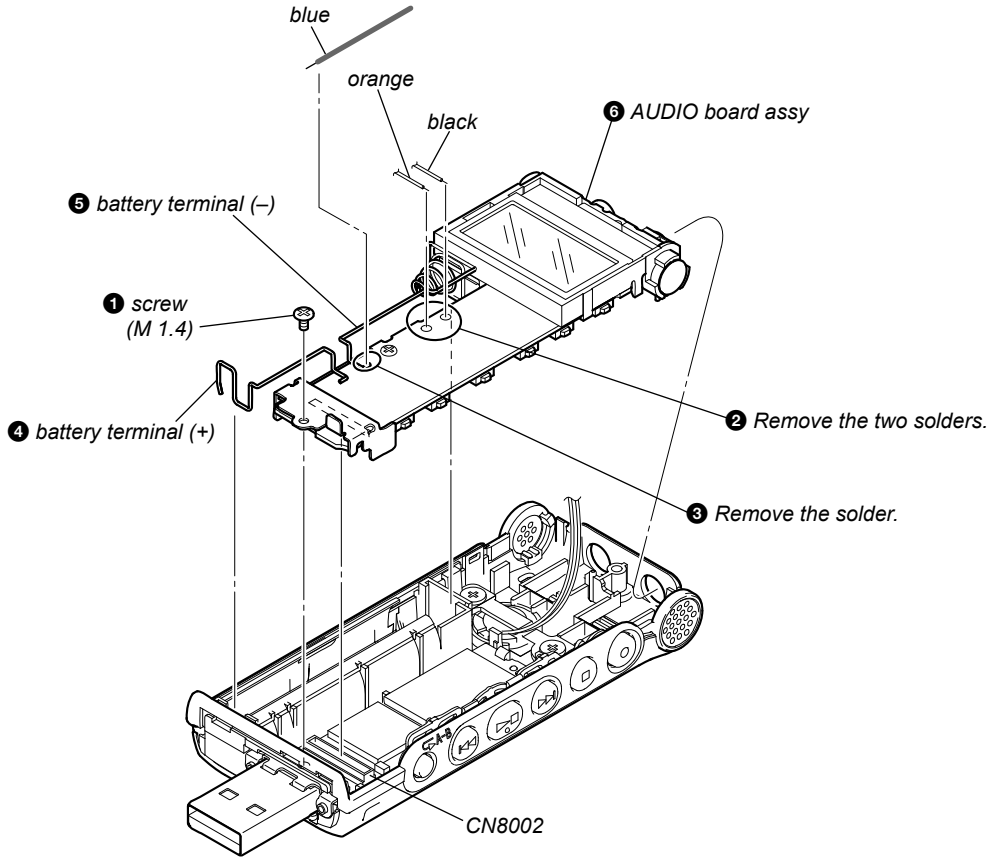


Caution

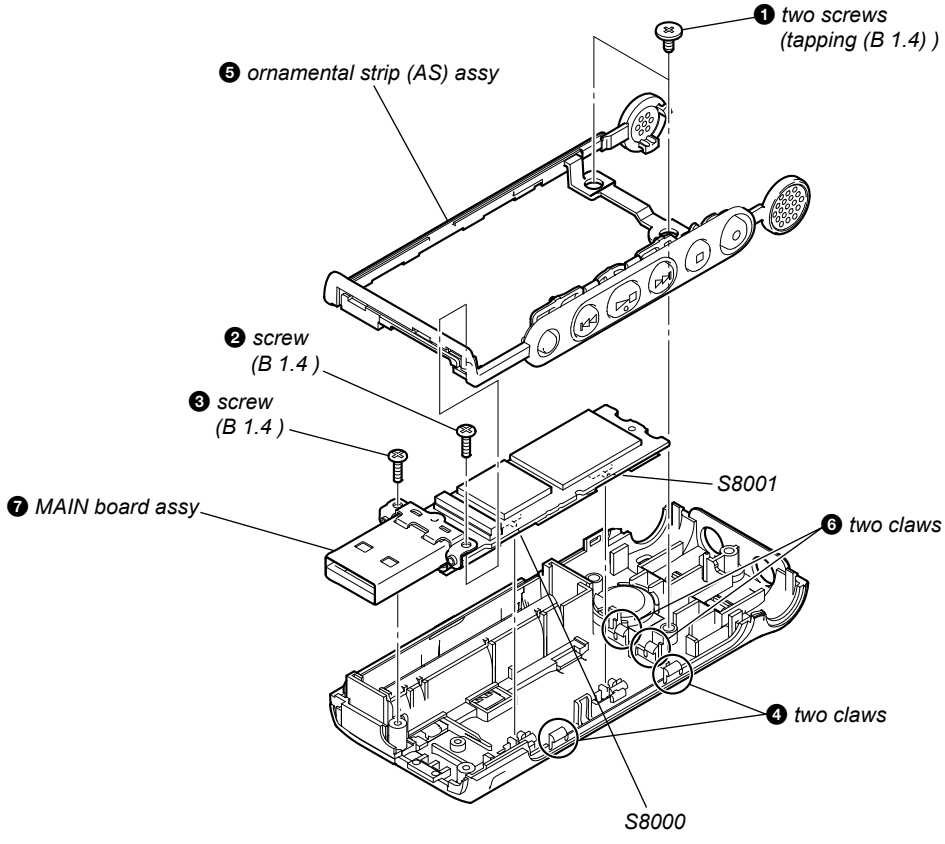
Take care not to open the case assy as illustrated below with the claws on the LCD side fastened.
Forcedly opening the assembly may cause both left and right claws on the LCD side to be broken.



2-3. AUDIO BOARD ASSY



2-4. MAIN BOARD ASSY



SECTION 3
TEST MODE

This set provides the checks given blow in TEST MODE.

Setting the TEST MODE
Turn on power to the set. Turn on [DPC] switch from the off state while pressing [MENU] key and [⏮] button at the same time.

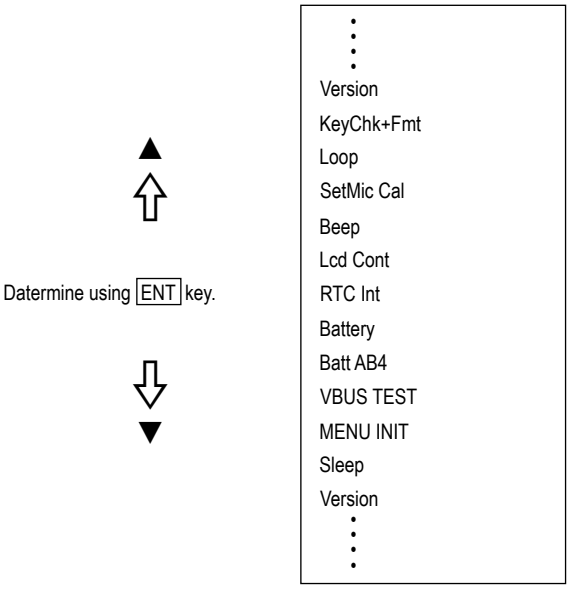
Exiting the TEST MODE
Turn off power.

TEST MODE Menu
The menu given below appears when TEST MODE is entered.

LCD display

```
Version
KeyChk+Fmt
Loop
```

Select an item using [▲]/[▼] key and determine the selected item using [ENT] key.



1. Version
Check the version of each module.

LCD display

```
ICD-UXx1 US C
F/W v1.10.02
D:D3 M:EC E
```

ICD-UXx1 build: Language
(JP: Japanese, US: English, CN: Simplified Chinese, CNS: Traditional Chinese, KR: Korean, RU: Russian and TH: Thai)
(ICD-UX91 (4GB), ICD-UX81 (2GB), ICD-UX71 (1GB))
Charge: C (With), No display (Without)
F/W: Version
D: NAND DEVICE CODE
M: NAND Marker CODE
Destination: J, U, CE7, E, KR3, CN, CE7-FM, LA, LA-FM

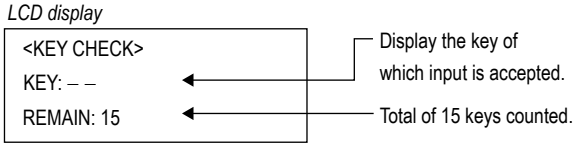
2. KeyChk+Fmt
Check the input by pressing each key.

Input and INT check (KEY input acceptance check and KEY_WAKE interrupt check).

Target input keys:
[●]/[■]/[▶▶I]/[▶II]/[⏮]/[A-B]/[MENU]/[VOL+]/[VOL–]/[▲]/ENT/[▼]/DEVIDE/HOLD OFF→ON/DPC OFF→ON

Total of 15 key locations

LCD display



The backlight is lit for 0.5 sec. when a key input is accepted.

When all the inputs have been confirmed at least once, format the NAND flash memory (delete all entries) and set the MENU settings to their defaults. (Hold the LCD contrast setting.)
* Once the NAND memory has been normally formatted, restart the system.

3. Loop
Perform a ADDA LOOP BACK.

External mic input: HP/SP output change
HP INSERT: Change to L/H
ALC function: OFF

HP output is selected independent of whether HP is installed or not when there is no external microphone (this is provided for anti-howl back). Selection of HP or SP output is determined only upon entry into Loop. There is no switching on the way.

LCD display

```
<Loop>      MIC:L
Vol:20 MIC IN
```

[PLAY]: Loop Back Start
[VOL+], [VOL–]: Volume operation to set. (Initial value 20)
[DPC]: OFF: Sensitivity H, ON: Sensitivity L
[A-B]: External mic select (MIC IN → AUDIO IN)

4. SetMic Cal
Write the correction value for the level difference between L and R channels of the internal stereo microphone into the NAND memory. With the L channel level as the reference, measure the R channel recording level. Then adjust the R channel's ADC VOL level so that the R channel level is equal to the L channel level.
* Make a mental note of the setting even when the battery has been removed.

[PLAY]: Recording start

LCD display

```
<SetMic Cal>
R-ch: –02dB
```

5. Beep
Test to Beep.

[PLAY]: 800 Hz → 1.3 kHz → 2.0 kHz → 800 Hz .....
[STOP]: STOP

6. LCD Cont
Adjust the LCD contrast.
* Make a mental note of the setting even when the battery has been removed.

LCD display

<LCD Cont>
Value: 36
[FF] + [FR] –

Initial value: 36
[FF]: +
[FR]: –

7. RTC Int
Perform a self- test on RTC.

LCD display

<RTC Int>
01s
RTC Int OK

The count is indicated every second.

8. Battery
Check the current value of Battery A/D.

LCD display

<Battery>
0x66

9. Batt AB4
Check the current value of Battery x4A/D.

LCD display

<Batt4>
0x2A

10. VBUS TEST
Check the presence of VBUS.

LCD display

<VBUS Test>
VBUS ON / OFF

[PLAY]: Suspend, LCD off
To reset, remove the battery and then insert it again.

11. MENU INIT
Initialize the set values.

LCD display

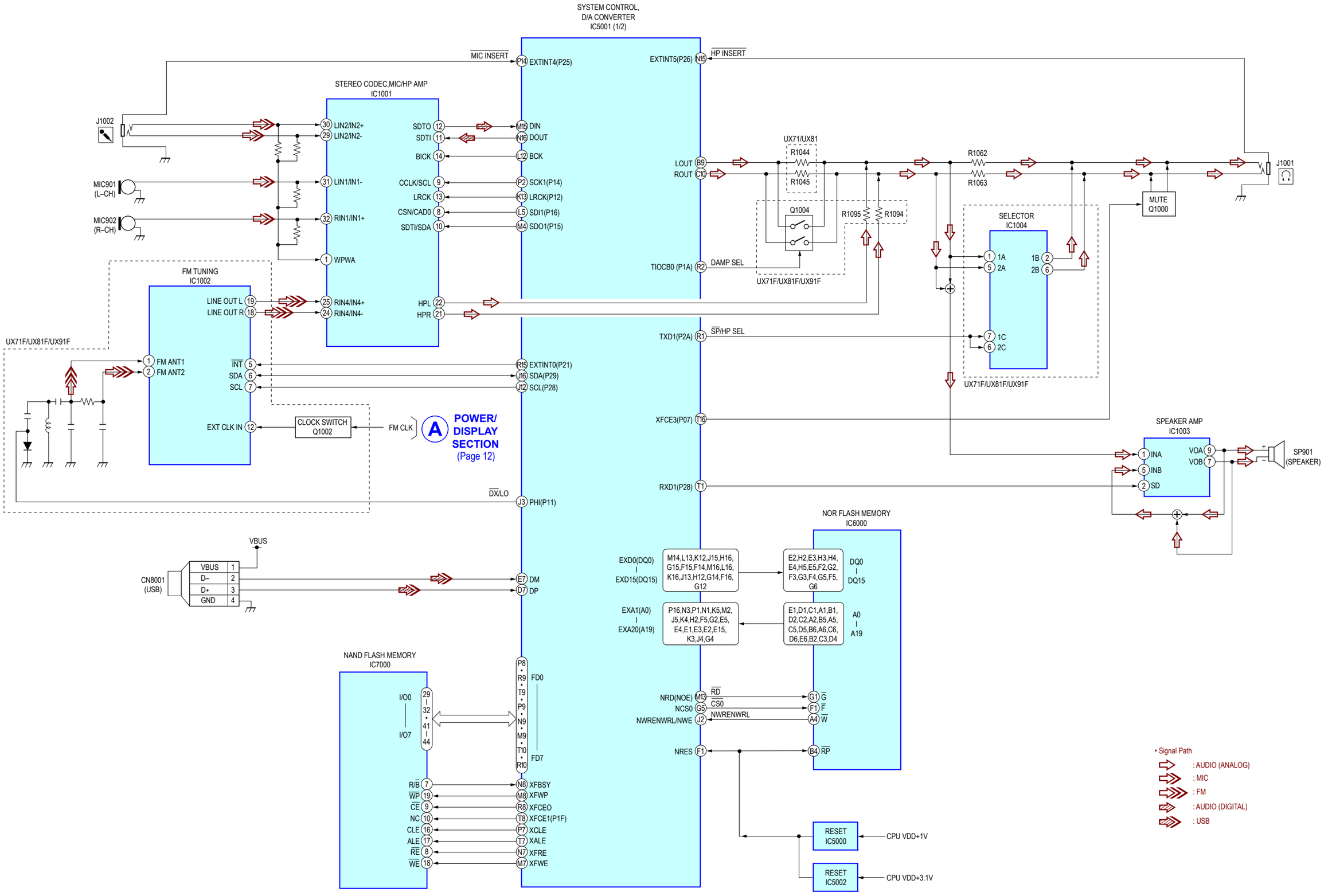
<Menu Init>
[PLAY]: ENTER

[PLAY]: Menu initialize start.

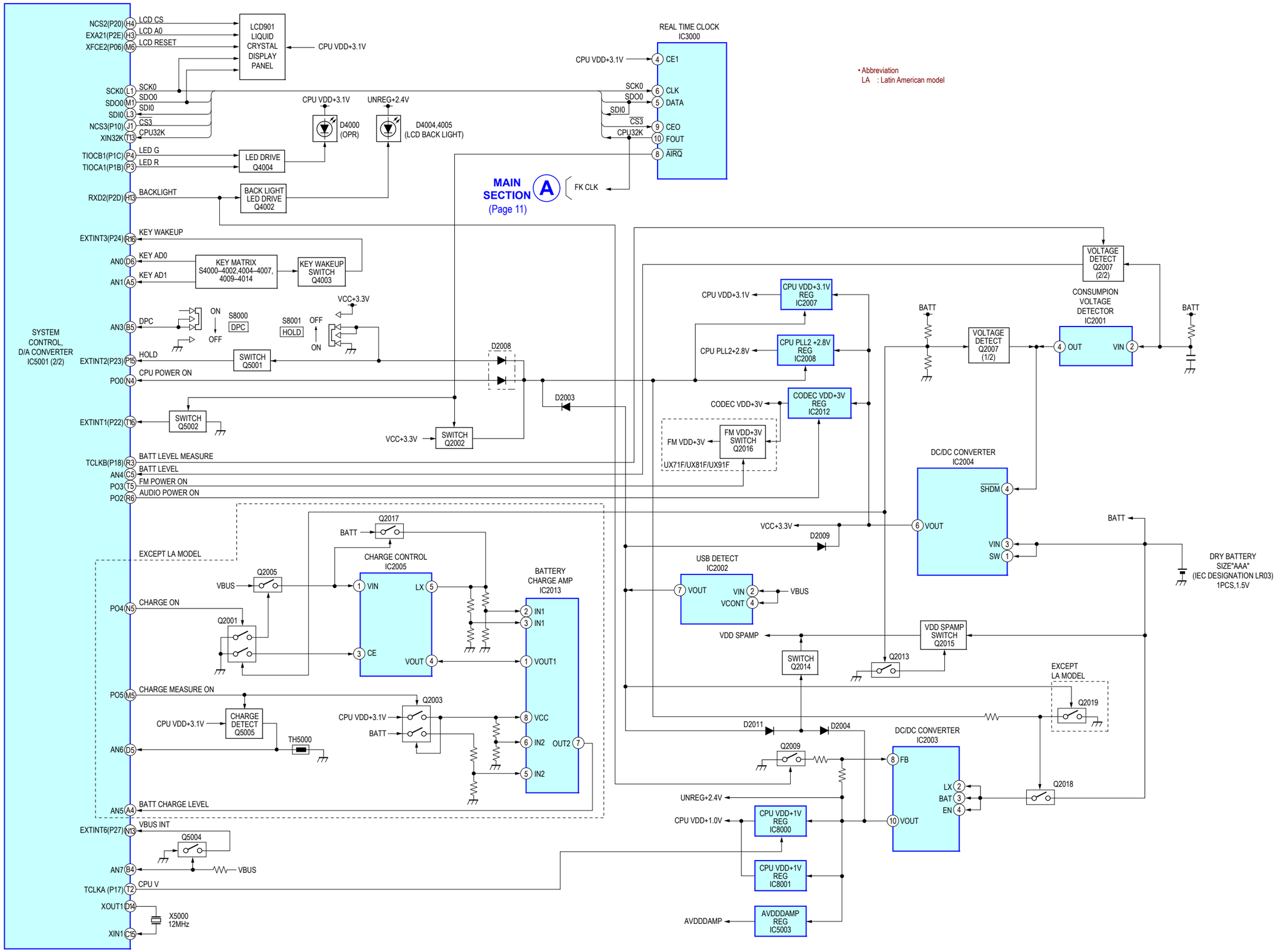
12. Sleep
Perform a sleep test.
The LCD display disappears and then the sleep mode is entered.
To exit the sleep mode, turn off power.
The power should be turned on again since resetting is not allowed.

SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAM – MAIN Section –



4-2. BLOCK DIAGRAM – POWER/DISPLAY Section –



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

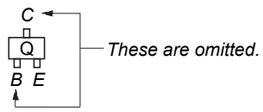
For Printed Wiring Boards.

Note:

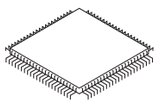
- ○——: Parts extracted from the component side.
- ——: Parts extracted from the conductor side.
- ▭: Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (SIDE B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (SIDE A)	Parts on the parts face side seen from the parts face are indicated.

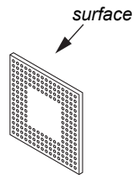
- Indication of transistor.



- Lead layouts



Lead layout of conventional IC



CSP (Chip Size Package)

- Abbreviation
  LA : Latin American model

For Schematic Diagrams.

Note:

- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭: panel designation.

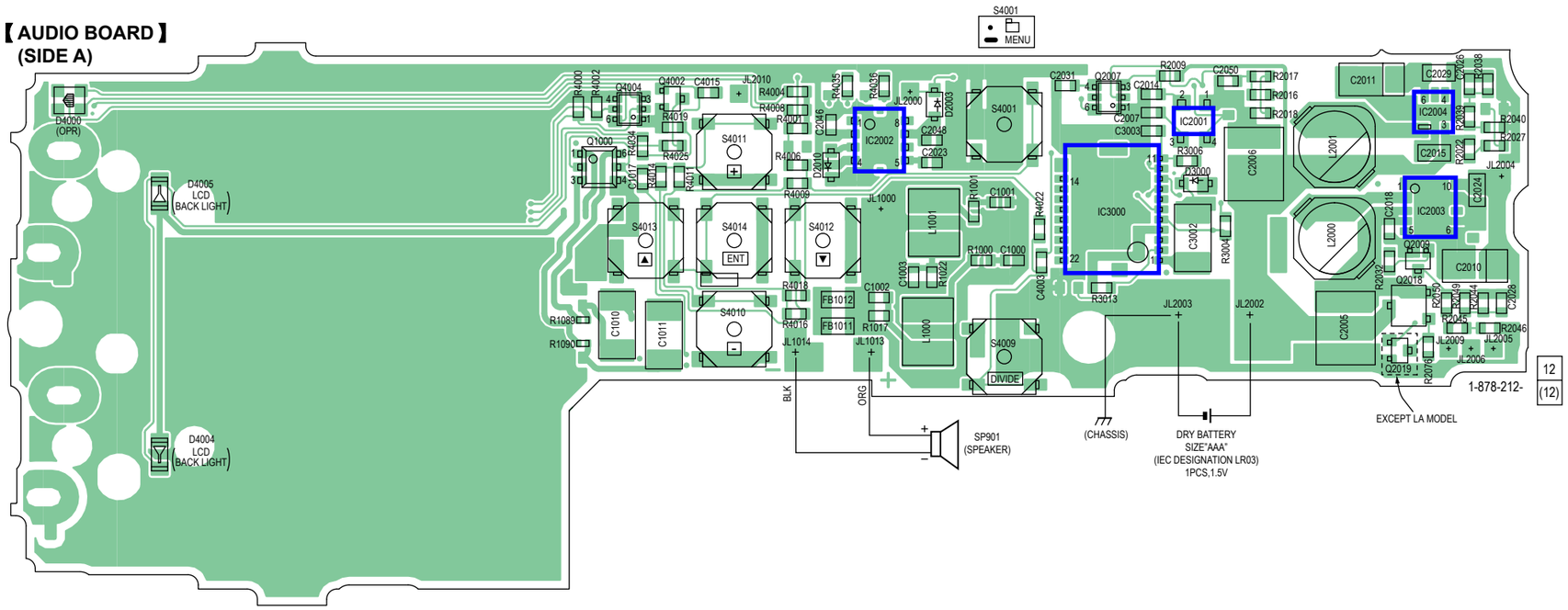
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬: B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: REC
  ( ): PLAY
  ＊ : Impossible to measure
- Voltages are taken with VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇛ : AUDIO (DIGITAL)
  ⇨ : AUDIO (ANALOG)
  ⇨ : MIC
  ⇨ : FM
  ⇛ : USB
- Abbreviation
  LA : Latin American model

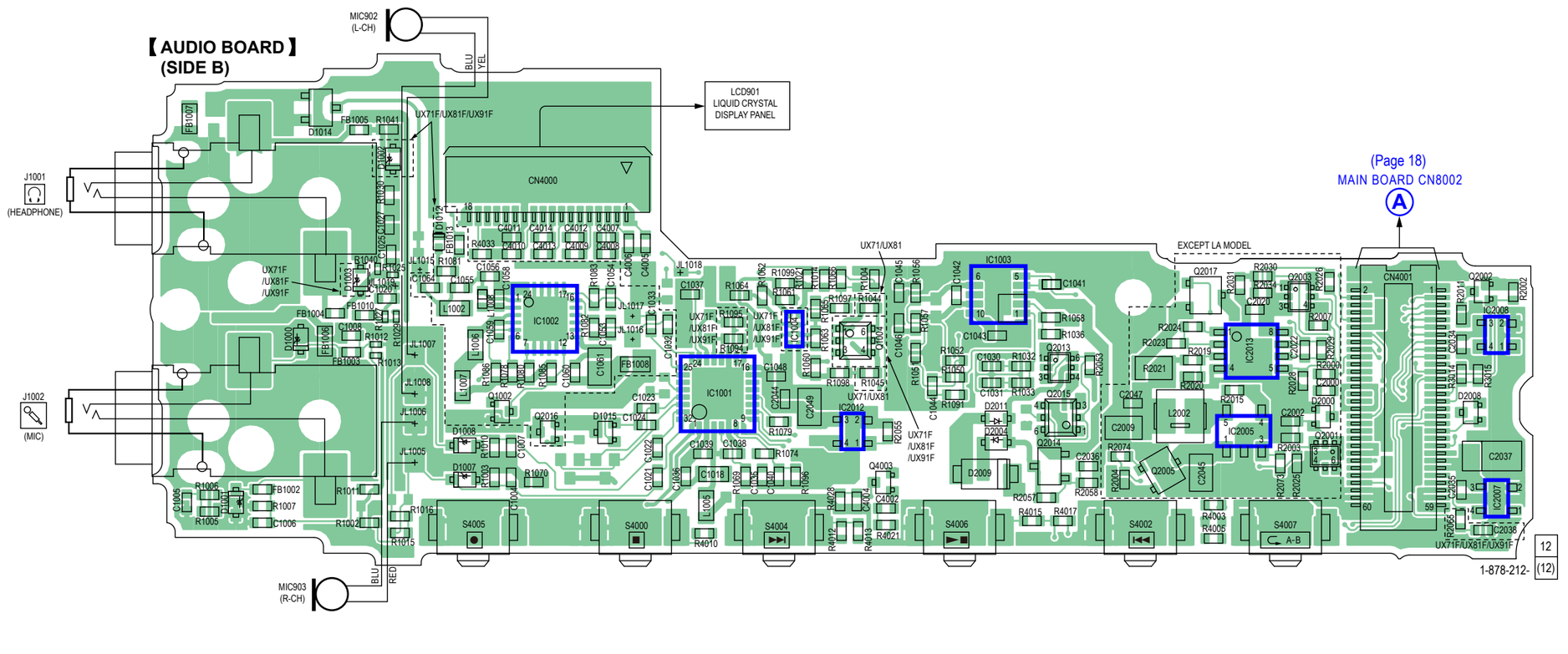
4-3. PRINTED WIRING BOARD – AUDIO Section –

• : Uses unleaded solder.

【AUDIO BOARD】
(SIDE A)



【AUDIO BOARD】
(SIDE B)

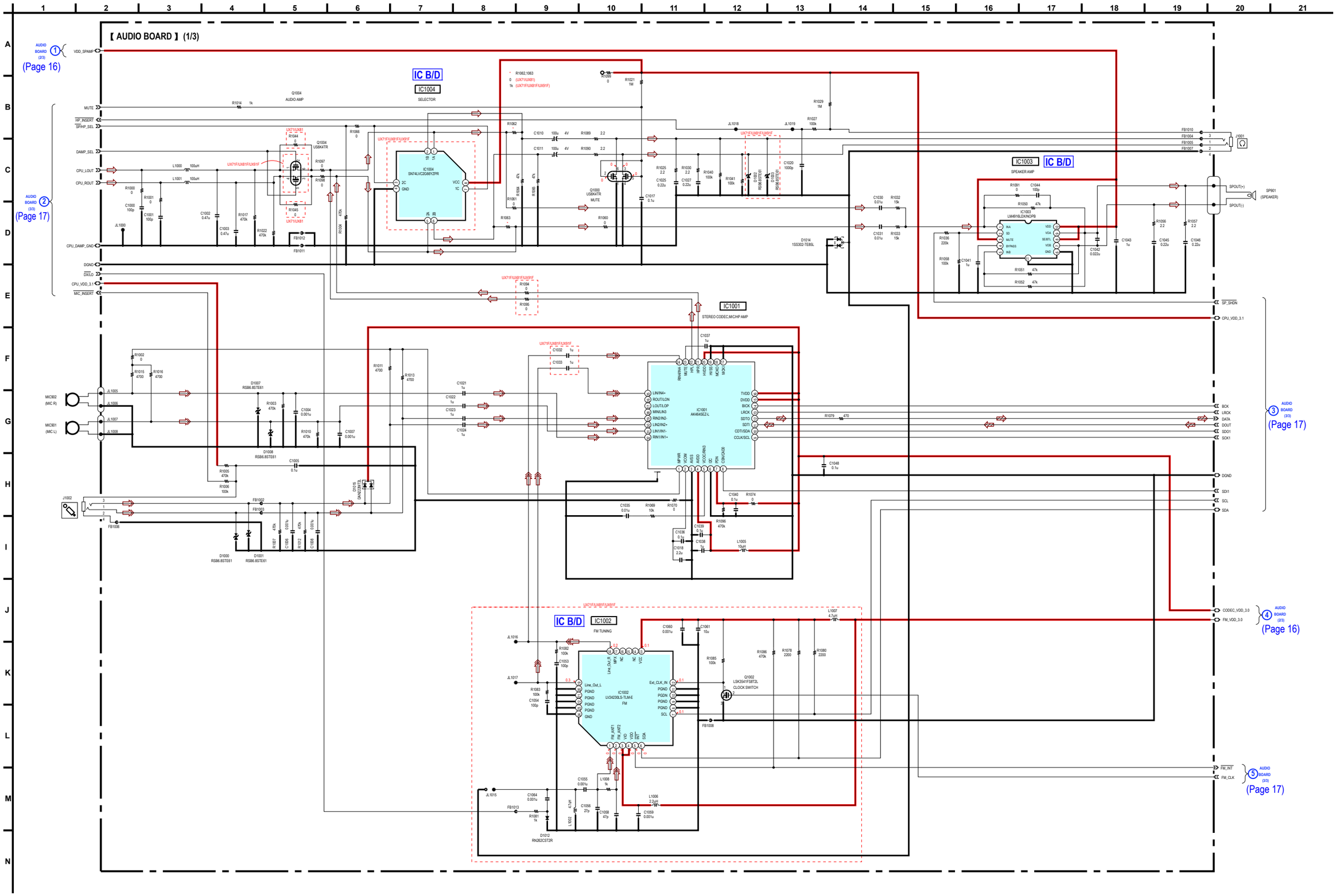


• **Semiconductor Location**

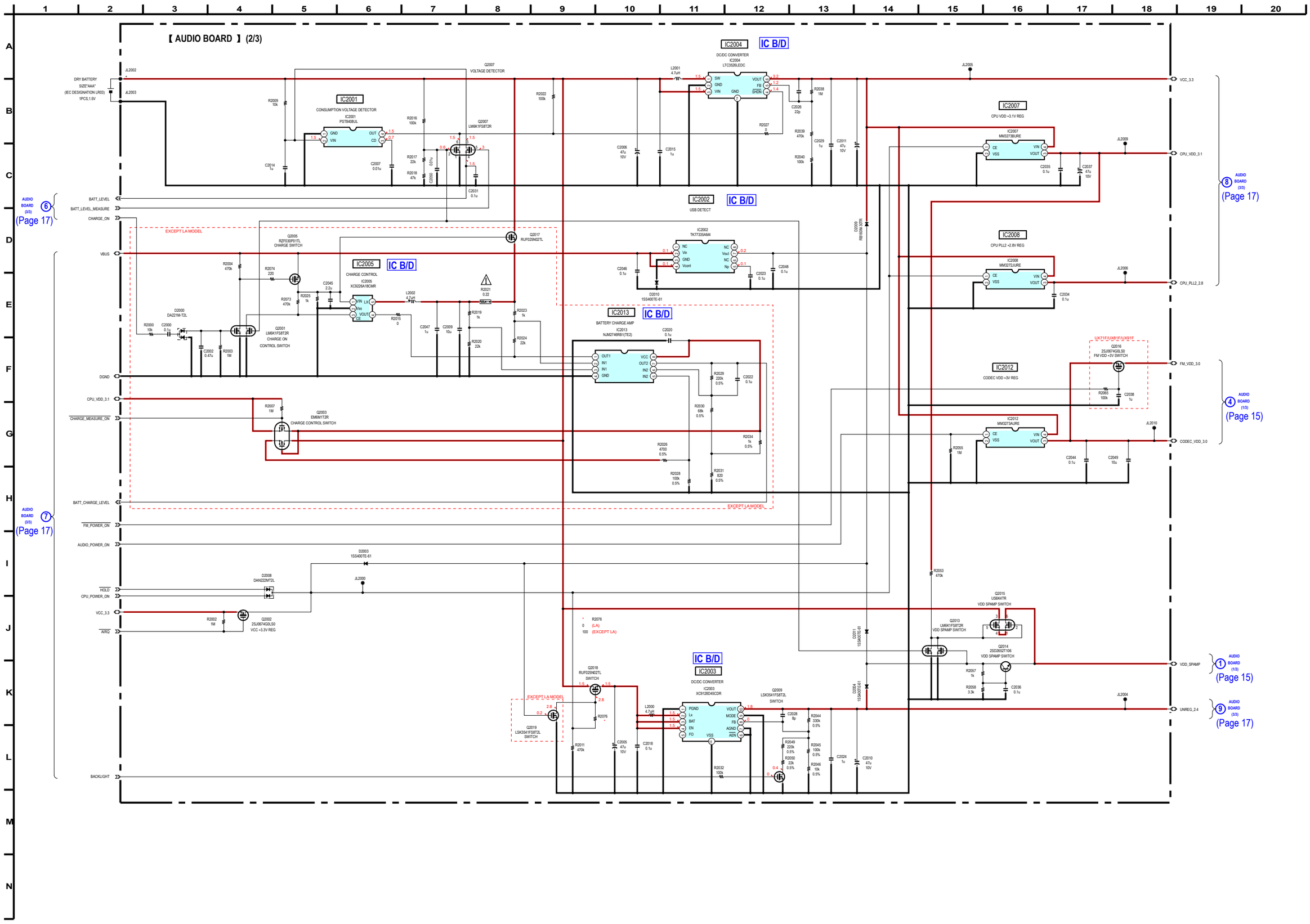
Ref. No.	Location
D1000	G-3
D1001	I-2
D1002	F-3
D1003	G-3
D1007	H-4
D1008	H-4
D1012	G-4
D1014	F-3
D1015	H-5
D2000	H-10
D2003	A-8
D2004	H-8
D2008	H-11
D2009	H-8
D2010	B-7
D2011	H-8
D3000	B-10
D4000	A-2
D4004	D-3
D4005	B-3
IC1001	H-6
IC1002	G-5
IC1003	G-8
IC1004	G-6
IC2001	B-10
IC2002	B-8
IC2003	B-11
IC2004	A-11
IC2005	H-10
IC2007	H-12
IC2008	G-12
IC2012	H-7
IC2013	G-10
IC3000	B-9
Q1000	B-6
Q1002	H-4
Q1004	G-7
Q2001	H-10
Q2002	G-12
Q2003	G-10
Q2005	H-9
Q2007	A-9
Q2009	B-11
Q2013	H-8
Q2014	H-8
Q2015	H-8
Q2016	H-5
Q2017	G-9
Q2018	C-11
Q2019	C-11
Q4002	A-6
Q4003	H-7
Q4004	A-6

4-4. SCHEMATIC DIAGRAM – AUDIO Section (1/3) –

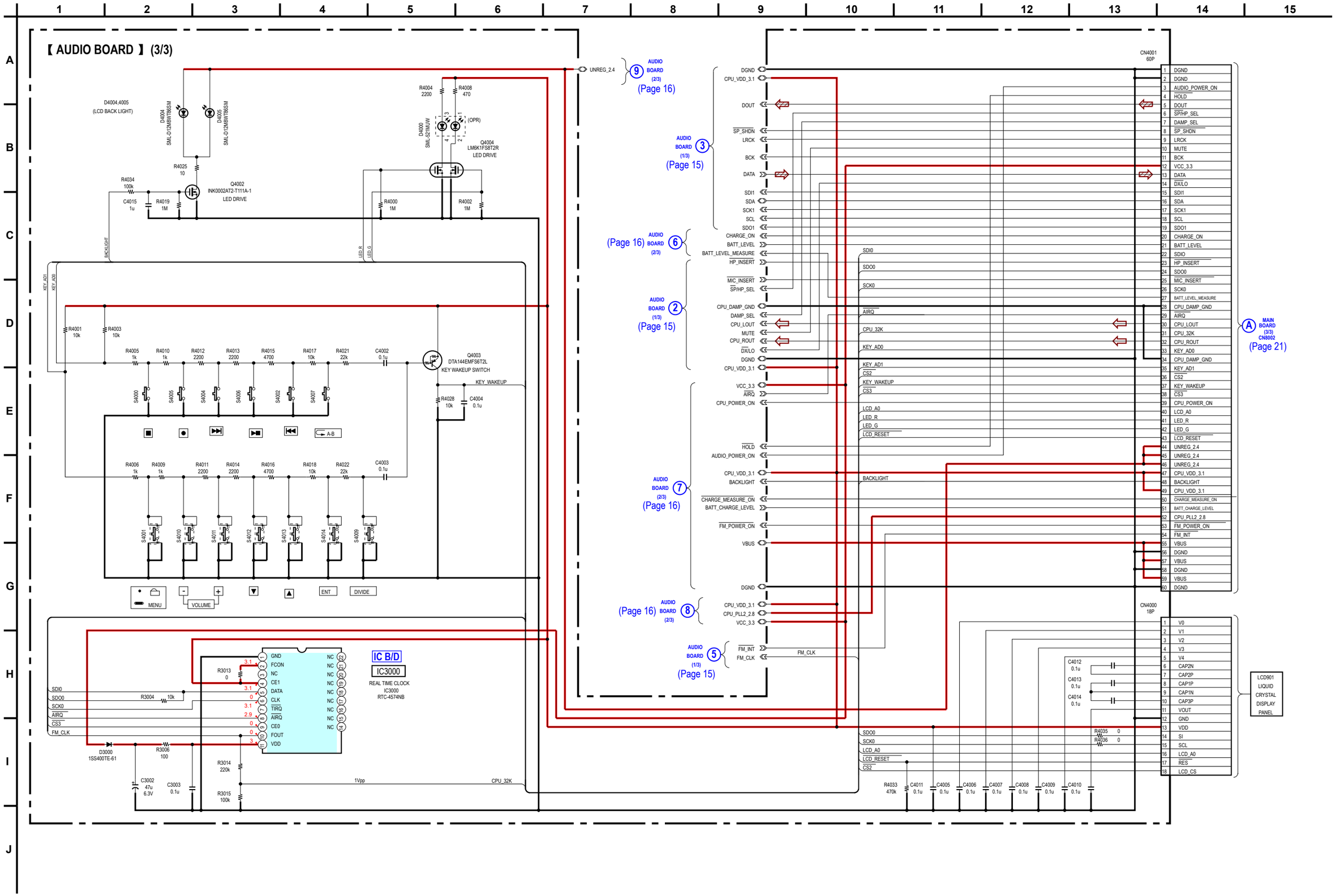
• See page 22 for IC Block Diagrams. • See page 25 for IC Pin Function Description of IC1001.



4-5. SCHEMATIC DIAGRAM – AUDIO Section (2/3) – • See page 22 for IC Block Diagrams.



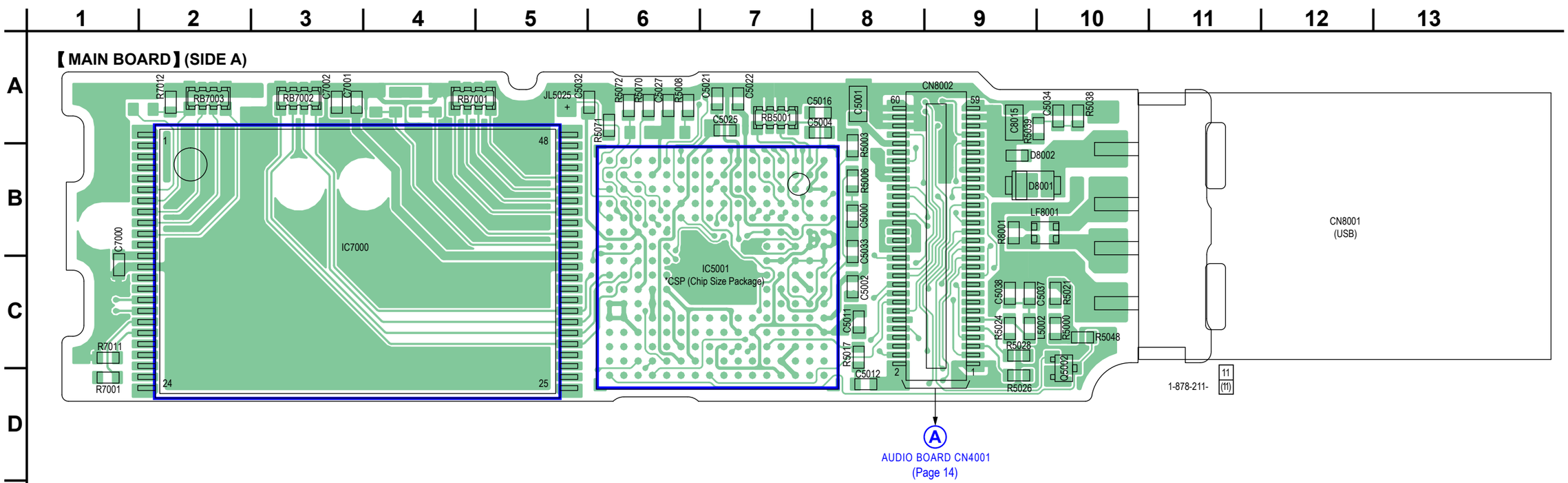
4-6. SCHEMATIC DIAGRAM – AUDIO Section (3/3) – • See page 24 for IC Block Diagram.



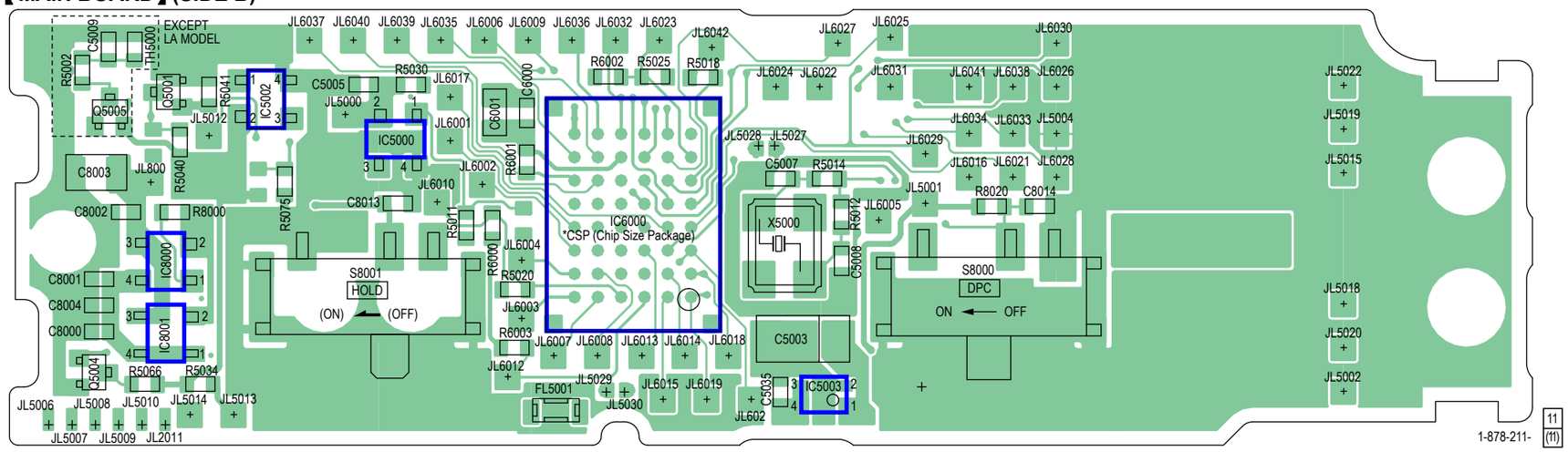
4-7. PRINTED WIRING BOARD – MAIN Section –

• : Uses unleaded solder.

【MAIN BOARD】(SIDE A)



【MAIN BOARD】(SIDE B)



When IC5001, IC6000 and IC7000 on the Main board are damaged, exchange the new Main board for the Main board which IC damaged.

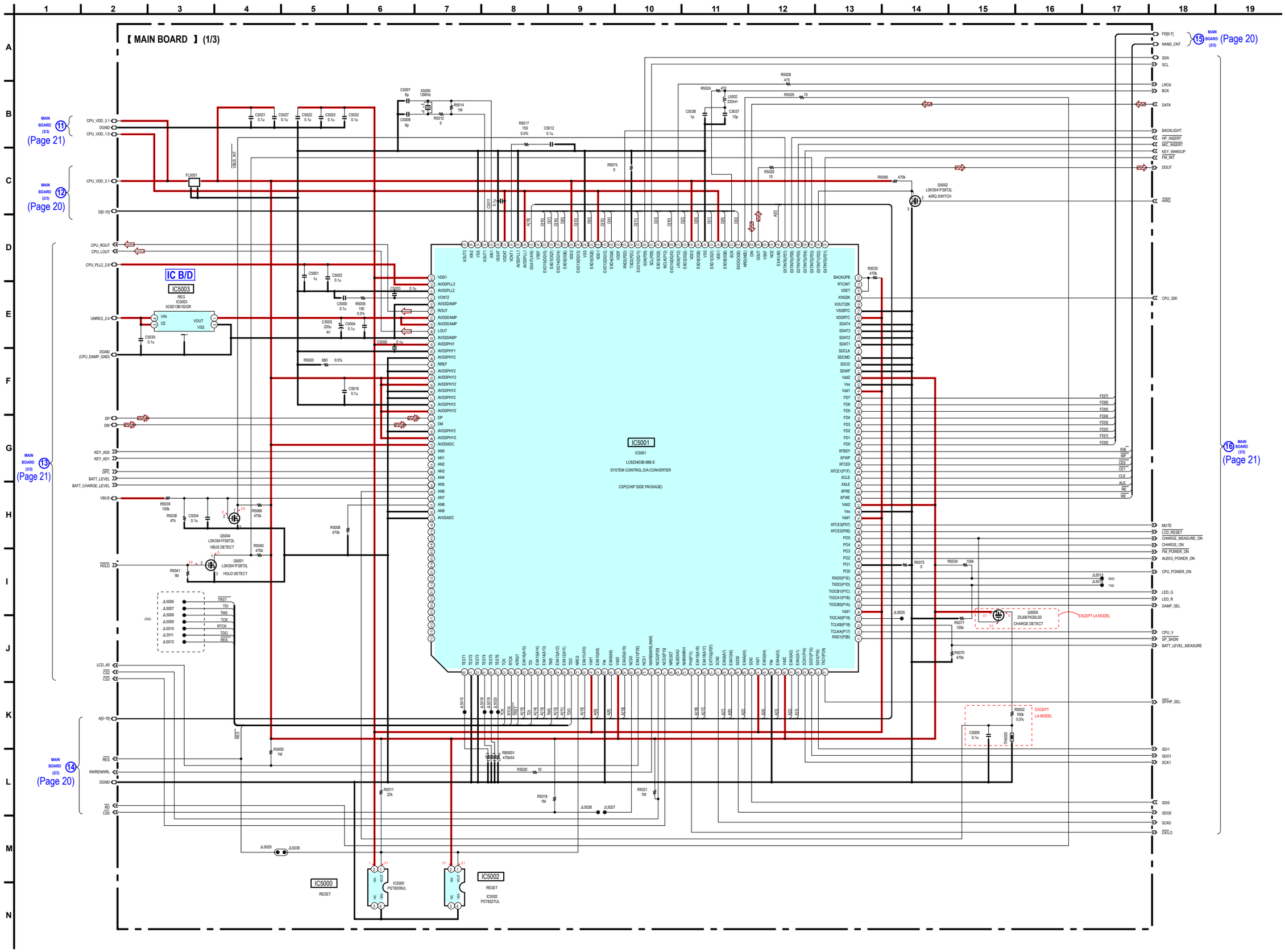
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D8001	B-9	IC7000	B-3
D8002	B-9	IC8000	G-2
		IC8001	G-2
IC5000	F-3		
IC5001	C-7	Q5001	E-2
IC5002	F-3	Q5002	C-10
IC5003	G-6	Q5004	G-1
IC6000	F-5	Q5005	F-1

When IC5001 on the Main board is damaged, exchange the new Main board for the Main board which IC damaged.

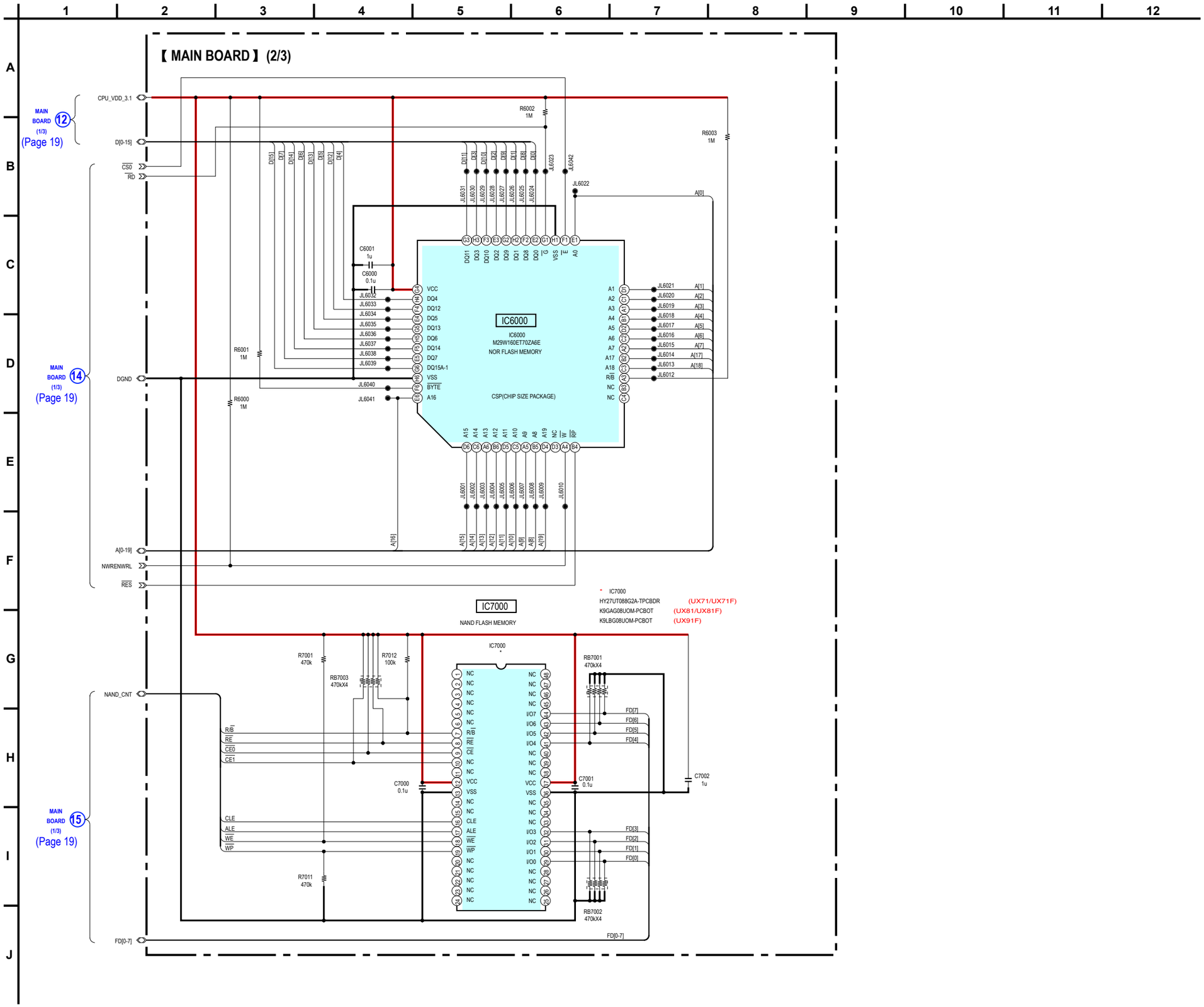
4-8. SCHEMATIC DIAGRAM – MAIN Section (1/3) –

• See page 24 for IC Block Diagram. • See page 26 for IC Pin Function Description of IC5001.



When IC6000 and IC7000 on the Main board are damaged, exchange the new Main board for the Main board which IC damaged.

4-9. SCHEMATIC DIAGRAM – MAIN Section (2/3) –



4-10. SCHEMATIC DIAGRAM – MAIN Section (3/3) –

【 MAIN BOARD 】 (3/3)

S8000 DPC ON OFF
R8020 1M
C8014 0.1u
S8001 HOLD ON OFF
C8013 0.1u
CPU_VDD_3.1
CPU_VDD_1.0
DGND
MAIN BOARD (1/3) (Page 19)

IC8000
CPU VDD +1.0V REG
C8004 1u
C8001 0.1u
IC8000 MM3271FURE
CE VSS VIN VOUT
JL8000
R8000 1M
C8000 0.1u
IC8001 XC6221B102NR
C8002 0.1u
C8003 10u
IC8001
CPU VDD +1.0V REG

MAIN BOARD (1/3) (Page 19)

DGND
AUDIO_POWER_ON
DOUT
SP/HP_SEL
DAMP_SEL
SP_SHDN
LRCK
MUTE
BCK
DATA
DX/LO
SDI1
SDA
SCK1
SCL
SDO1
CHARGE_ON
SDI0
HP_INSERT
SDO0
MIC_INSERT
SCK0
BATT_LEVEL_MEASURE
AIRQ
CPU_32K
KEY_WAKEUP
CPU_POWER_ON
LED_R
LED_G
LCD_RESET
BACKLIGHT
CHARGE_MEASURE_ON
CPU_V
FM_POWER_ON
FM_INT
BATT_LEVEL
CPU_LOUT
CPU_ROUT
KEY_AD0
KEY_AD1
CS2
CS3
LCD_A0
BATT_CHARGE_LEVEL
CPU_PLL2_2.8
DGND (CPU_DAMP_GND)
UNREG_2.4
VBUS
HOLD
DM
DPC
DP

MAIN BOARD (1/3) (Page 19)

CN8002 60P

1	DGND
2	DGND
3	AUDIO_POWER_ON
4	HOLD
5	DOUT
6	SP/HP_SEL
7	DAMP_SEL
8	SP_SHDN
9	LRCK
10	MUTE
11	BCK
12	VCC_3.3
13	DATA
14	DX/LO
15	SDI1
16	SDA
17	SCK1
18	SCL
19	SDO1
20	CHARGE_ON
21	BATT_LEVEL
22	SDIO
23	HP_INSERT
24	SDO0
25	MIC_INSERT
26	SCK0
27	BATT_LEVEL_MEASURE
28	CPU_DAMP_GND
29	AIRQ
30	CPU_LOUT
31	CPU_32K
32	CPU_ROUT
33	KEY_AD0
34	CPU_DAMP_GND
35	KEY_AD1
36	CS2
37	KEY_WAKEUP
38	CS3
39	CPU_POWER_ON
40	LCD_A0
41	LED_R
42	LED_G
43	LCD_RESET
44	UNREG_2.4
45	UNREG_2.4
46	UNREG_2.4
47	CPU_VDD_3.1
48	BACKLIGHT
49	CPU_VDD_3.1
50	CHARGE_MEASURE_ON
51	BATT_CHARGE_LEVEL
52	CPU_PLL2_2.8
53	FM_POWER_ON
54	FM_INT
55	VBUS
56	DGND
57	VBUS
58	DGND
59	VBUS
60	DGND

AUDIO BOARD (3/3) CN4001 (Page 17)

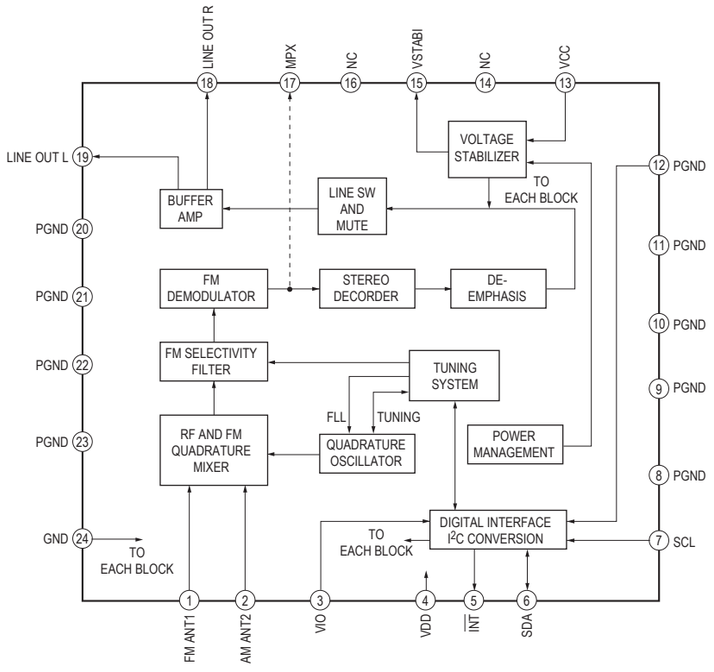
R8001 1M
C8015 1u
LF8001
D8001 RB161VA-20
D8002 CDZT2R12B
CN8001 4P

1	VBUS
2	D-
3	D+
4	GND

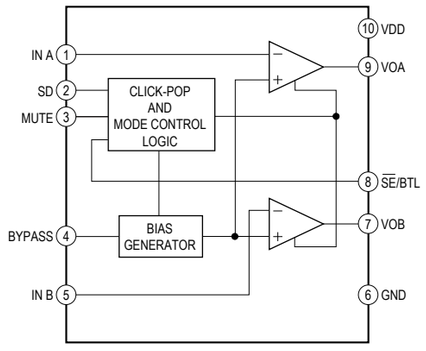
CN8001 (USB)

- **IC Block Diagrams**

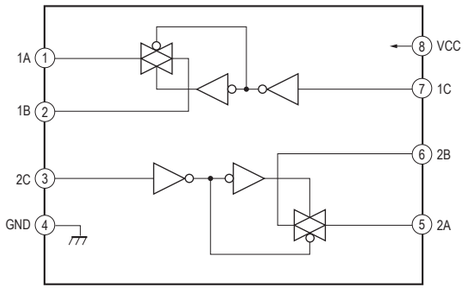
IC1002 LV24230LS-TLM-E (AUDIO Board (1/3))



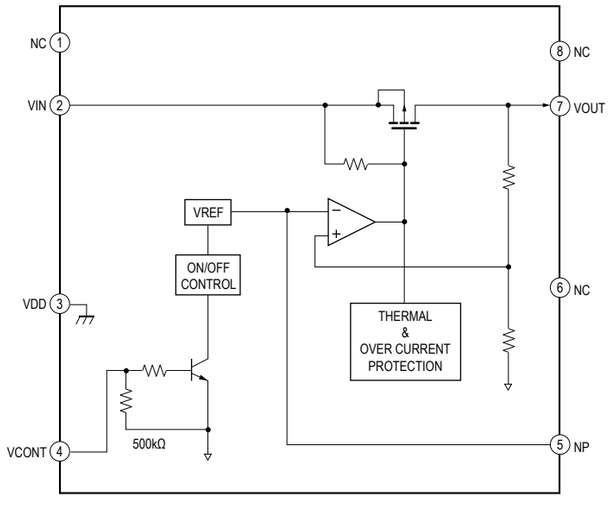
IC1003 LM4916LDX/NOPB (AUDIO Board (1/3))



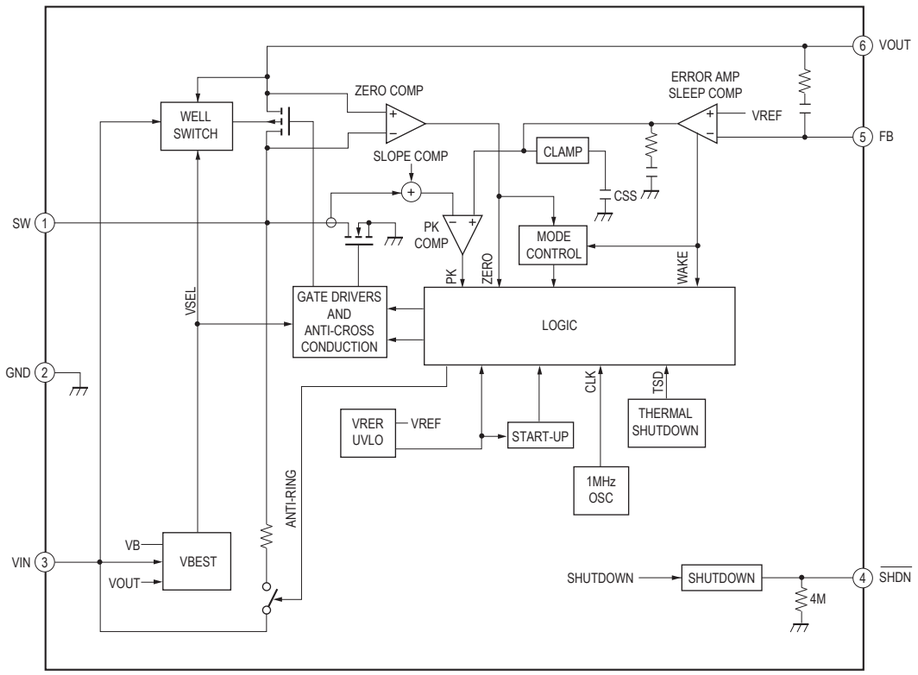
IC1004 SN74LVC2G66YZPR (AUDIO Board (1/3))



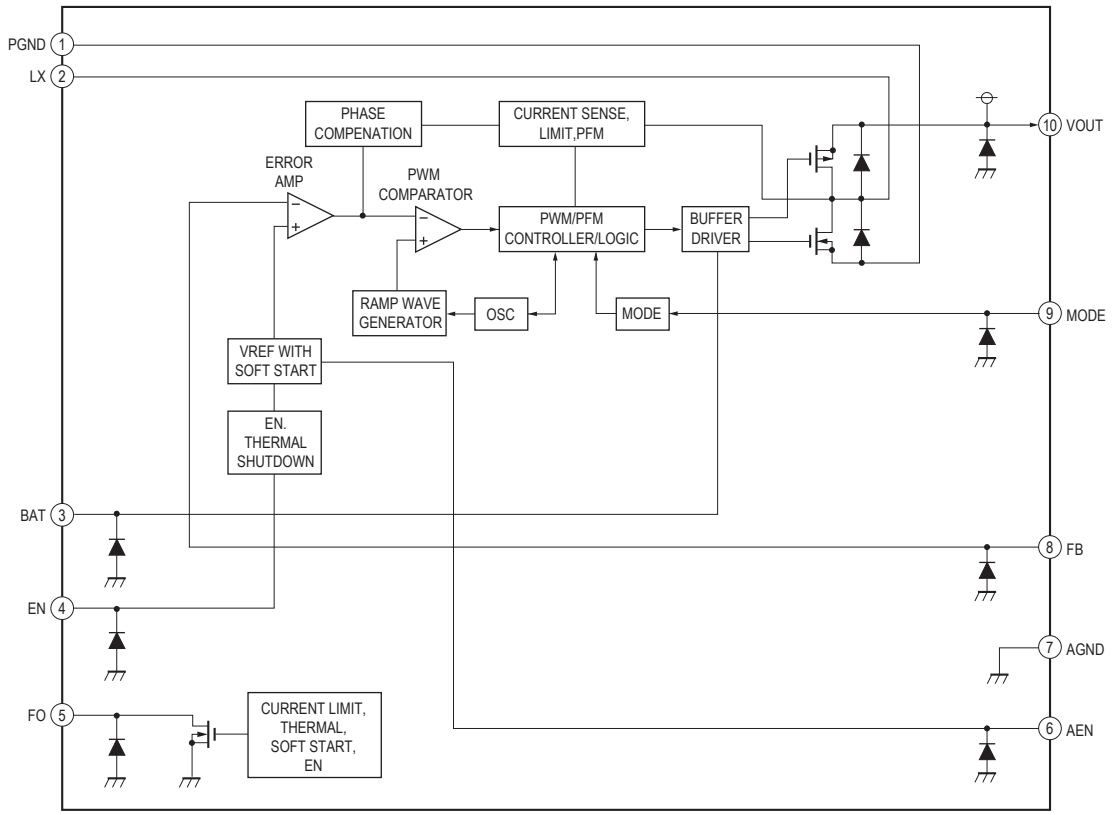
IC2002 TK77335AM4 (AUDIO Board (2/3))



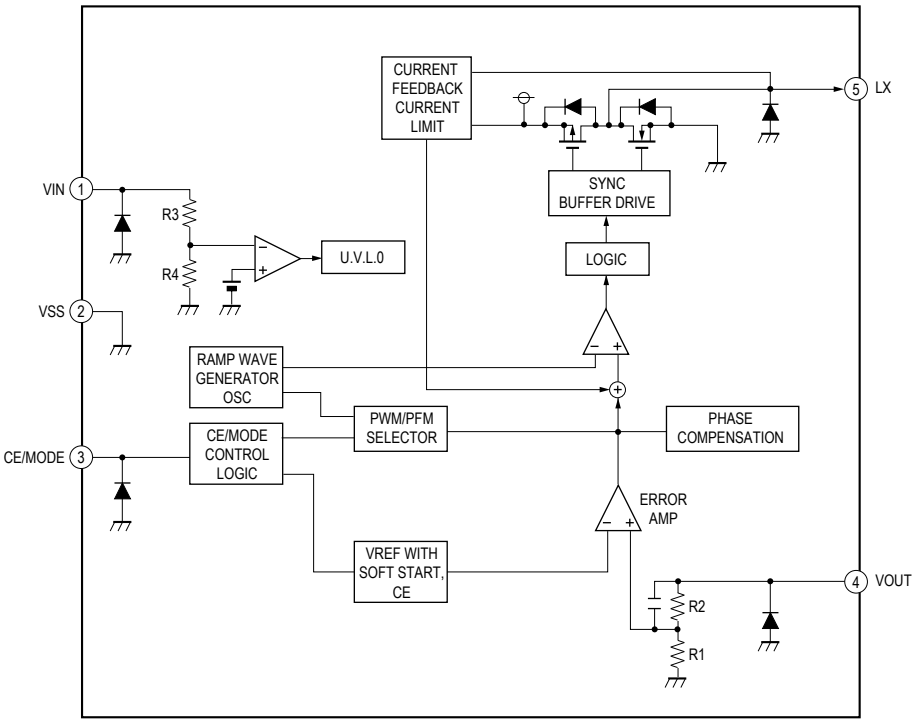
IC2004 LTC3526LEDC (AUDIO Board (2/3))



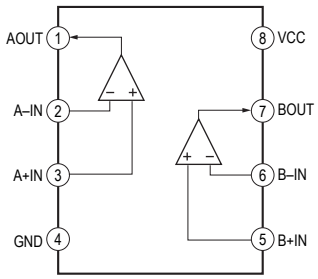
IC2003 XC9128D45CDR (AUDIO Board (2/3))



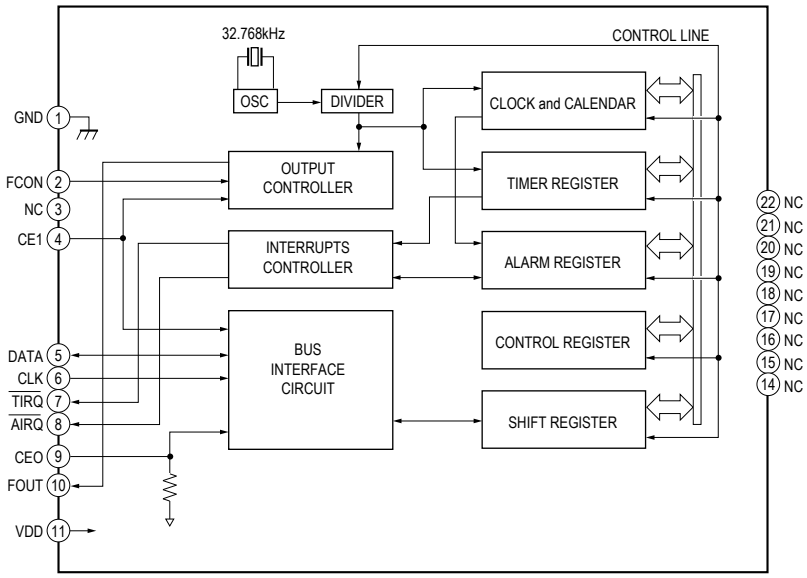
IC2005 XC9226A18CMR (AUDIO Board (2/3))



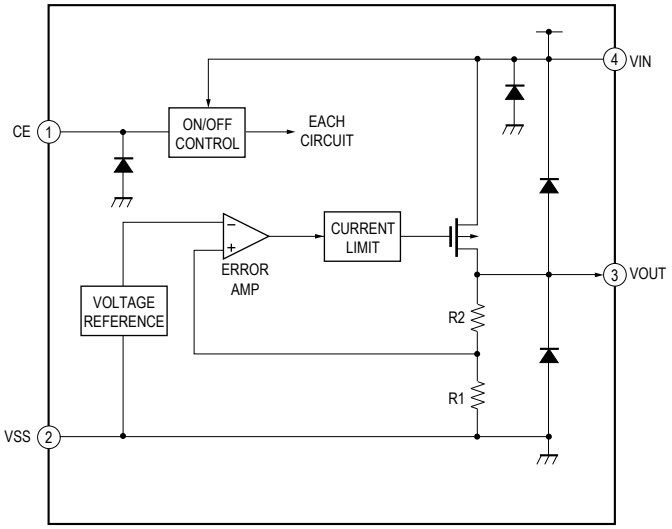
IC2013 NJM2746RB1(TE2) (AUDIO Board (2/3))



IC3000 RTC-4574NB (AUDIO Board (3/3))



IC5003 XC6213B152GR (MAIN Board (1/3))



• **IC Pin Function Description**

AUDIO BOARD IC1001 AK4645EZ-L (STEREO CODEC, MIC/HP AMP)

Pin No.	Pin Name	I/O	Description
1	MPWR	O	Power supply pin for microphone
2	VCOM	O	Common voltage output Bias voltage of ADC output and DAC output
3	AVSS	—	Analog ground pin
4	AVDD	—	Analog power supply pin
5	VCOC/RIN3	O	PLL loop filter signal output
6	I2C	I	Control mode select signal input "H": I2C bus
7	PDN	I	Power down mode signal input "H": Power up, "L": Power down, reset
8	CSN/CAD0	I	Chip select signal input
9	CCLK/SCL	I	Control clock signal input
10	CDTI/SDA	I	Control data signal input
11	SDTI	I	Audio serial data signal input
12	SDTO	O	Audio serial data signal output
13	LRCK	I/O	In/out channel clock signal input/output
14	BICK	I/O	Audio serial clock signal input/output
15	DVDD	—	Digital power supply pin
16	TVDD	—	Digital in/out power supply pin
17	MCKI	I	External master clock signal input Not used. (Connect to ground.)
18	MCKO	O	External master clock signal output Not used. (Open)
19	HVSS	—	Headphone amplifier ground pin
20	HVDD	—	Headphone amplifier power supply pin
21	HPR	O	R-CH headphone amplifier signal output
22	HPL	O	L-CH headphone amplifier signal output
23	MUTE	O	Mute signal output
24	RIN4/IN4–	I	R-CH analog signal input 4
25	LIN4/IN4+	I	L-CH analog signal input 4
26	ROUT/LON	O	R-CH line output Not used. (Open)
27	LOUT/LOP	O	L-CH line output Not used. (Open)
28	MIN/LIN3	I	Monaural analog signal input Not used. (Open)
29	RIN2/IN2–	I	R-CH analog signal input 2
30	LIN2/IN2+	I	L-CH analog signal input 2
31	LIN1/IN1–	I	L-CH analog signal input 1
32	RIN1/IN1+	I	R-CH analog signal input 1

MAIN BOARD IC5001 LC823403B-08B-E (SYSTEM CONTROL, D/A CONVERTER)

Pin No.	Pin Name	I/O	Description
B2	TEST1	I	Test pin 1
A1	TEST2	I	Test pin 2
C2	TEST3	I	Test pin 3
B1	TEST4	I	Test pin 4
D2	TEST5	I	Test pin 5
C1	TEST6	I	Test pin 6
C3	TCK	I	JTAG test clock signal input
D3	RTCK	O	JTAG test returned clock signal output
D1	NTRST	I	JTAG test reset signal input
E2	EXA16(A15)	O	External memory address bit 16 signal output NOR address line signal output
D4	TDI	I	JTAG test data signal input
E3	EXA15(A14)	O	External memory address bit 15 signal output NOR address line signal output
E1	EXA14(A13)	O	External memory address bit 14 signal output NOR address line signal output
F2	TMS	I	JTAG test mode select signal input
E4	EXA13(A12)	O	External memory address bit 13 signal output NOR address line signal output
E5	EXA12(A11)	O	External memory address bit 12 signal output NOR address line signal output
F3	TDO	O	JTAG test data signal output
F1	NRES	I	Reset signal input
G2	EXA11(A10)	O	External memory address bit 11 signal output NOR address line signal output
F4	Vdd1	—	Digital power supply pin (+1.0V)
F5	EXA10(A9)	O	External memory address bit 10 signal output NOR address line signal output
G3	Vss	—	Digital ground pin
H2	EXA9(A8)	O	External memory address bit 9 signal output NOR address line signal output
G1	Vdd2	—	Digital power supply pin (+3.1V)
G4	EXA20(A19)	O	External memory address bit 20 signal output NOR address line signal output
G5	NCS0	O	External memory chip select signal output 0 NOR chip select signal output
H3	EXA21(P2E)	O	External memory address bit 21 signal output NOR address line signal output
H1	NCS1	O	External memory chip select signal output 1 Not used in this set. (Open)
J2	NWRENWRL/NWE	O	External memory write/external memory write low byte signal output
H4	NCS2(P20)	O	External memory chip select 2 signal output LCD chip select signal output
J1	NCS3(P10)	O	External memory chip select 3 signal output RTC chip select signal output
H5	NRESET	I	Flash reset signal input Not used in this set. (Open)
K2	NLBEXA0	O	External memory address bit 0/external memory low byte select signal output Not used in this set. (Open)
K1	NHBNWRH	O	External memory write/external memory write high byte signal output Not used in this set. (Open)
J3	PHI(P11)	O	AHB bus clock signal output (32.768kHz) FM DX/Local change signal output
J4	EXA19(A18)	O	External memory address bit 19 signal output NOR address line signal output
K3	EXA18(A17)	O	External memory address bit 18 signal output NOR address line signal output
L2	EXTFIQ(P2F)	I	External FIQ interruption signal input Not used in this set. (Open)
L1	SCK0	O	Serial interface 0 clock signal output RTC/LCD clock signal output
K4	EXA8(A7)	O	External memory address bit 8 signal output NOR address line signal output
J5	EXA7(A6)	O	External memory address bit 7 signal output NOR address line signal output
M1	SDO0	O	Serial interface 0 data signal output RTC/LCD data signal output
M2	EXA6(A5)	O	External memory address bit 6 signal output NOR address line signal output
L3	SDI0	I	Serial interface 0 data signal input RTC data signal input
L4	Vdd1	—	Digital power supply pin (+1.0V)
K5	EXA5(A4)	O	External memory address bit 5 signal output NOR address line signal output
M3	Vss	—	Digital ground pin
N1	EXA4(A3)	O	External memory address bit 4 signal output NOR address line signal output
N2	Vdd2	—	Digital power supply pin (+3.1V)
P1	EXA3(A2)	O	External memory address bit 3 signal output NOR address line signal output
N3	EXA2(A1)	O	External memory address bit 2 signal output NOR address line signal output

Pin No.	Pin Name	I/O	Description
P2	SCK1(P14)	O	Serial interface 1 clock signal output ADDA serial clock signal output
M4	SDO1(P15)	O	Serial interface 1 data signal output ADDA serial data signal output
L5	SDI1(P16)	I	Serial interface 1 data signal input ADDA serial data signal input
R1	TXD1(P2A)	O	UART1 transmission signal output SP/HP change signal output
T1	RXD1(P2B)	O	UART1 reception signal output SP shut down signal output
T2	TCLKA(P17)	O	Multiple timer external clock A signal output CPU core voltage change signal output
R3	TCLKB(P18)	O	Multiple timer external clock B signal output Battery level measure signal output
T3	TIOCA0(P19)	I/O	Multiple timer input capture/output compare A0 signal input/output Not used in this set. (Open)
R4	Vdd1	—	Digital power supply pin (+1.0V)
R2	TIOCB0(P1A)	I/O	Multiple timer input capture/output compare B0 signal input/output D AMP output on/off select signal output
P3	TIOCA1(P1B)	I/O	Multiple timer input capture/output compare A1 signal input/output OP LED (red) signal output
P4	TIOCB1(P1C)	I/O	Multiple timer input capture/output compare B1 signal input/output OP LED (green) signal output
R5	TXDO(P1D)	O	UART transmission signal output
T4	RXDO(P1E)	I	UART reception signal output
N4	PO0	I/O	Port pin 0 bit0 CPU power on signal output
P5	PO1	I/O	Port pin 0 bit1 Connect to ground in this set.
R6	PO2	I/O	Port pin 0 bit2 AUDIO power on signal output
T5	PO3	I/O	Port pin 0 bit3 FM power on signal output
N5	PO4	I/O	Port pin 0 bit4 Charge on signal output
M5	PO5	I/O	Port pin 0 bit5 Charge measurement signal output
M6	XFCE2(P06)	O	Nand flash chip enable 2 signal output LCD reset signal output
T6	XFCE3(P07)	O	Nand flash chip enable 3 signal output Mute signal output
P6	Vdd1	—	Digital power supply pin (+1.0V)
N6	Vss	—	Digital ground pin
R7	Vdd2	—	Digital power supply pin (+3.1V)
M7	XFWE	O	Nand flash write enable signal output
N7	XFRE	O	Nand flash read enable signal output
T7	XALE	O	Nand flash address latch enable signal output
P7	XCLE	O	Nand flash command latch enable signal output
T8	XFCE1(P1F)	O	Nand flash chip enable 1 signal output
R8	XFCE0	O	Nand flash chip enable 0 signal output
M8	XFWP	O	Nand flash write protect signal output
N8	XFBSY	I	Nand flash busy signal input
P8	FD0	I/O	Nand flash data bit 0 signal input/output
R9	FD1	I/O	Nand flash data bit 1 signal input/output
T9	FD2	I/O	Nand flash data bit 2 signal input/output
P9	FD3	I/O	Nand flash data bit 3 signal input/output
N9	FD4	I/O	Nand flash data bit 4 signal input/output
M9	FD5	I/O	Nand flash data bit 5 signal input/output
T10	FD6	I/O	Nand flash data bit 6 signal input/output
R10	FD7	I/O	Nand flash data bit 7 signal input/output
P10	Vdd1	—	Digital power supply pin (+1.0V)
N10	Vss	—	Digital ground pin
M10	Vdd2	—	Digital power supply pin (+3.1V)
N11	SDWP	I	SD card write protect signal input Connected to ground in this set.
T11	SDCD	I	SD card detect signal input Connected to ground in this set.
R11	SDCMD	I/O	SD card command signal input/output Connected to ground in this set.
P11	SDCLK	O	SD card clock signal output Not used in this set. (Open)
M11	SDAT1	I/O	SD card data bit 0 signal input/output Connected to ground in this set.
T12	SDAT2	I/O	SD card data bit 1 signal input/output Connected to ground in this set.

Pin No.	Pin Name	I/O	Description
N12	SDAT3	I/O	SD card data bit 2 signal input/output Connected to ground in this set.
R12	SDAT4	I/O	SD card data bit 3 signal input/output Connected to ground in this set.
P12	VDDRTC	—	Digital power supply pin (+1.0V)
P13	VSSRTC	—	Digital ground pin
R13	XOUT32K	O	RTC oscillation amplifier signal output (32.768kHz) Not used in this set. (Open)
T13	XIN32K	I	RTC oscillation amplifier signal input (32.768kHz)
R14	VDET	I	Voltage detection signal input (Pull up 3.1V)
T14	RTCINT	O	RTC interruption signal output Not used in this set. (Open)
T15	BACKUPB	I	RTC operation mode signal input (Pull up 3.1V)
R15	EXTINT0(P21)	I	External interruption bit 0 signal input FM interruption signal input
T16	EXTINT1(P22)	I	External interruption bit 1 signal input RTC interruption signal input
P15	EXTINT2(P23)	I	External interruption bit 2 signal input Hold interruption signal input
R16	EXTINT3(P24)	I	External interruption bit 3 signal input Key wake up signal input
P14	EXTINT4(P25)	I	External interruption bit 4 signal input Mic detection signal input
N15	EXTINT5(P26)	I	External interruption bit 5 signal input HP detection signal input
N13	EXTINT6(P27)	I	External interruption bit 6 signal input USB detect interruption signal input
P16	EXA1(A0)	O	External memory address bit 1 signal output NOR address line signal output
N14	NCE	I	Flash chip select signal input Not used in this set. (Open)
M12	VssF	—	Flash ground pin Not used in this set. (Open)
N16	DOUT	O	PCM data signal output
M15	DIN	I	PCM data signal input
M13	NRD(NOE)	O	External memory read signal output NOR read signal output
M14	EXD0(DQ0)	I/O	External memory data bus bit 0 signal input/output NOR data bus signal input/output
L12	BCK	I/O	PCM bit clock signal input/output
M16	EXD8(DQ8)	I/O	External memory data bus bit 8 signal input/output NOR data bus signal input/output
L15	VDD1	—	Digital power supply pin (+1.0V)
L13	EXD1(DQ1)	I/O	External memory data bus bit 1 signal input/output NOR data bus signal input/output
L14	VSS	—	Digital ground pin
L16	EXD9(DQ9)	I/O	External memory data bus bit 9 signal input/output NOR data bus signal input/output
K15	VDD2	—	Digital power supply pin (+3.1V)
K12	EXD2(DQ2)	I/O	External memory data bus bit 2 signal input/output NOR data bus signal input/output
K13	LRCK(P12)	I/O	PCM LR clock signal input/output
K16	EXD10(DQ10)	I/O	External memory data bus bit 10 signal input/output NOR data bus signal input/output
K14	MCLK(P13)	I/O	PCM main clock signal input/output Not used in this set. (Open)
J15	EXD3(DQ3)	I/O	External memory data bus bit 3 signal input/output NOR data bus signal input/output
J12	SCL(P28)	I/O	FM I2C clock signal input/output
J16	SDA(P29)	I/O	FM I2C data signal input/output
J13	EXD11(DQ11)	I/O	External memory data bus bit 11 signal input/output NOR data bus signal input/output
J14	TXD2(P2C)	O	UART2 transmission data signal output
H13	RXD2(P2D)	I	UART2 reception data signal input Backlight control signal input
H15	VDDF	—	Flash power supply pin (+3.3V) Not used in this set. (Open)
H16	EXD4(DQ4)	I/O	External memory data bus bit 4 signal input/output NOR data bus signal input/output
H12	EXD12(DQ12)	I/O	External memory data bus bit 12 signal input/output NOR data bus signal input/output
H14	VDD1	—	Digital power supply pin (+1.0V)
G15	EXD5(DQ5)	I/O	External memory data bus bit 15 signal input/output NOR data bus signal input/output
G16	VSS	—	Digital ground pin
G14	EXD13(DQ13)	I/O	External memory data bus bit 13 signal input/output NOR data bus signal input/output
G13	VDD2	—	Digital power supply pin (+3.1V)
F15	EXD6(DQ6)	I/O	External memory data bus bit 6 signal input/output NOR data bus signal input/output
F16	EXD14(DQ14)	I/O	External memory data bus bit 14 signal input/output NOR data bus signal input/output
F14	EXD7(DQ7)	I/O	External memory data bus bit 7 signal input/output NOR data bus signal input/output
G12	EXD15(DQ15)	I/O	External memory data bus bit 15 signal input/output NOR data bus signal input/output
E16	VSSF	—	Flash ground pin Not used in this set. (Open)
E15	EXA17(A16)	O	External memory address bit 17 signal output NOR address data line signal output

Pin No.	Pin Name	I/O	Description
D16	AVDDPLL1	—	PLL1 analog power supply pin (+1.0V)
D15	AVSSPLL1	—	PLL1 analog ground pin
E14	VCNT1	O	PLL1 VCO control signal output
F13	VDDXT	—	System/USB PHY oscillation amplifier power supply pin (+1.0V)
C16	VSSXT	—	System/USB PHY oscillation amplifier ground pin
C15	XIN1	I	System/USB PHY oscillation amplifier signal input (12MHz)
D14	XOUT1	O	System/USB PHY oscillation amplifier signal output (12MHz)
C14	VSS	—	Digital ground pin
B16	XIN2	I	Audio oscillation signal input (16.9344MHz) Not used in this set. (Open)
B15	XOUT2	O	Audio oscillation signal output (16.9344MHz) Not used in this set. (Open)
A13	VDD1	—	Digital power supply pin (+1.0V)
A12	AVDDPLL2	—	PLL2 analog power supply pin (+2.8V)
B11	AVSSPLL2	—	PLL2 analog ground pin
A11	VCNT2	O	PLL2 VCO control signal output
B10	AVSSDAMP	—	DAMP analog ground pin
C10	ROUT	O	DAMP R-ch signal output
D10	AVDDDAMP	—	DAMP analog power supply pin (+1.5V)
A10	AVDDDAMP	—	DAMP analog power supply pin (+1.5V)
B9	LOUT	O	DAMP L-ch signal output
C9	AVSSDAMP	—	DAMP analog ground pin
D9	AVDDPHY1	—	USB PHY digital power supply pin (+1.0V)
E9	AVSSPHY1	—	USB PHY digital ground pin (DIG)
B8	AVSSPHY2	—	USB PHY digital ground pin (SUB)
A9	RREF	—	USB PHY reference power supply pin
C8	AVSSPHY2	—	USB PHY analog ground pin
D8	AVDDPHY2	—	USB PHY analog power supply pin (+3.1V)
B7	AVDDPHY2	—	USB PHY analog power supply pin (+3.1V) (DIG)
A8	AVSSPHY2	—	USB PHY digital ground pin (DIG)
C7	AVSSPHY2	—	USB PHY digital ground pin (SUB)
A7	AVSSPHY2	—	USB PHY digital ground pin
E8	AVDDPHY2	—	USB PHY analog power supply pin (+3.1V)
D7	DP	I	USB D+ signal input
E7	DM	I	USB D– signal input
A6	AVSSPHY2	—	USB PHY digital ground pin
B6	AVDDPHY2	—	USB PHY analog power supply pin (+3.1V)
C6	AVDDADC	—	A/D converter digital power supply pin (+3.1V)
D6	AN0	I	Analog signal input (CH-0) Key AD0 signal input
A5	AN1	I	Analog signal input (CH-1) Key AD1 signal input
E6	AN2	I	Analog signal input (CH-2) Hold switch signal input Not used in this set. (Open)
B5	AN3	I	Analog signal input (CH-3) DPC switch signal input
C5	AN4	I	Analog signal input (CH-4) Battery level observation signal input
A4	AN5	I	Analog signal input (CH-5) Charge battery level observation signal input
D5	AN6	I	Analog signal input (CH-6) Charge temperature observation signal input
B4	AN7	I	Analog signal input (CH-7) VBUS level observation signal input
C4	AN8	I	Analog signal input (CH-8) (Pull down.)
A3	AN9	I	Analog signal input (CH-9) (Connected to ground.)
B3	AVSSADC	—	A/D converter digital ground pin
A2	@Crip	—	Not used. (Open)
A14	@Crip	—	Not used. (Open)
A15	@Crip	—	Not used. (Open)
A16	@Crip	—	Not used. (Open)
B12	@Crip	—	Not used. (Open)
B13	@Crip	—	Not used. (Open)
B14	@Crip	—	Not used. (Open)

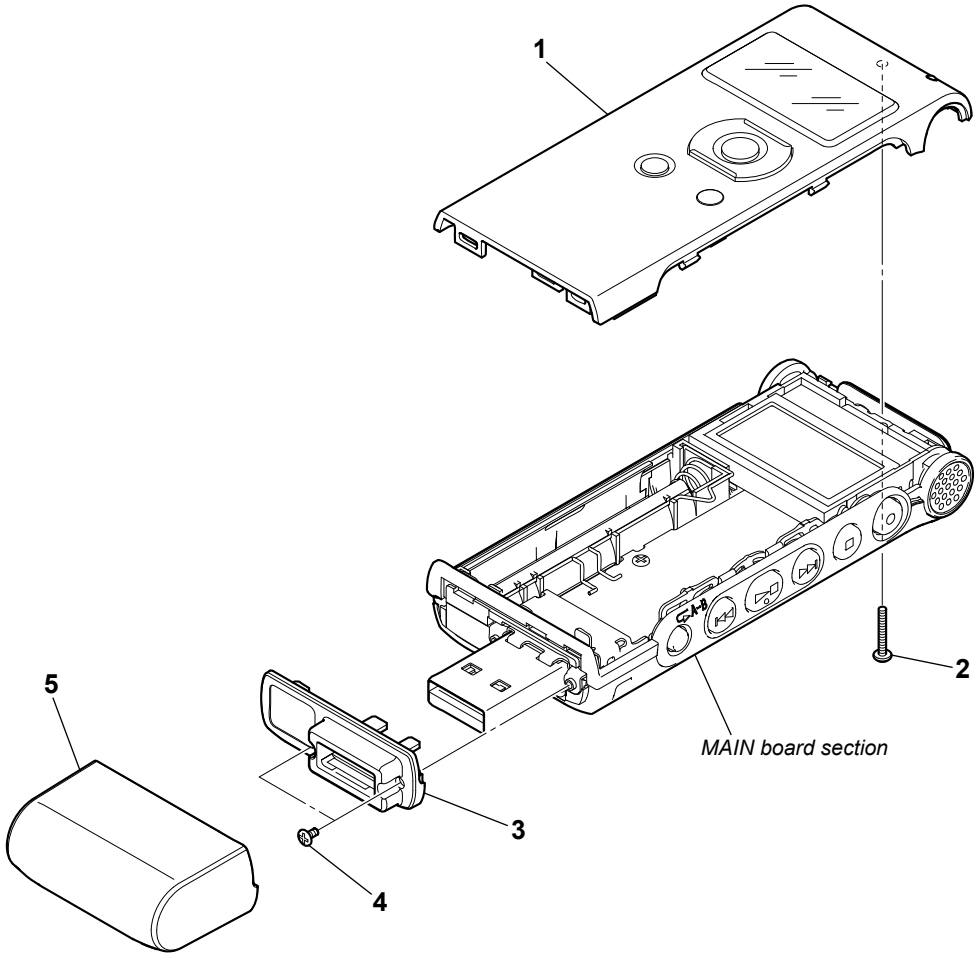
Pin No.	Pin Name	I/O	Description
C11	@Crip	—	Not used. (Open)
C12	@Crip	—	Not used. (Open)
C13	@Crip	—	Not used. (Open)
D11	@Crip	—	Not used. (Open)
D12	@Crip	—	Not used. (Open)
D13	@Crip	—	Not used. (Open)
E10	@Crip	—	Not used. (Open)
E11	@Crip	—	Not used. (Open)
E12	@Crip	—	Not used. (Open)
E13	@Crip	—	Not used. (Open)
F12	@Crip	—	Not used. (Open)

SECTION 5
EXPLODED VIEWS

Note:

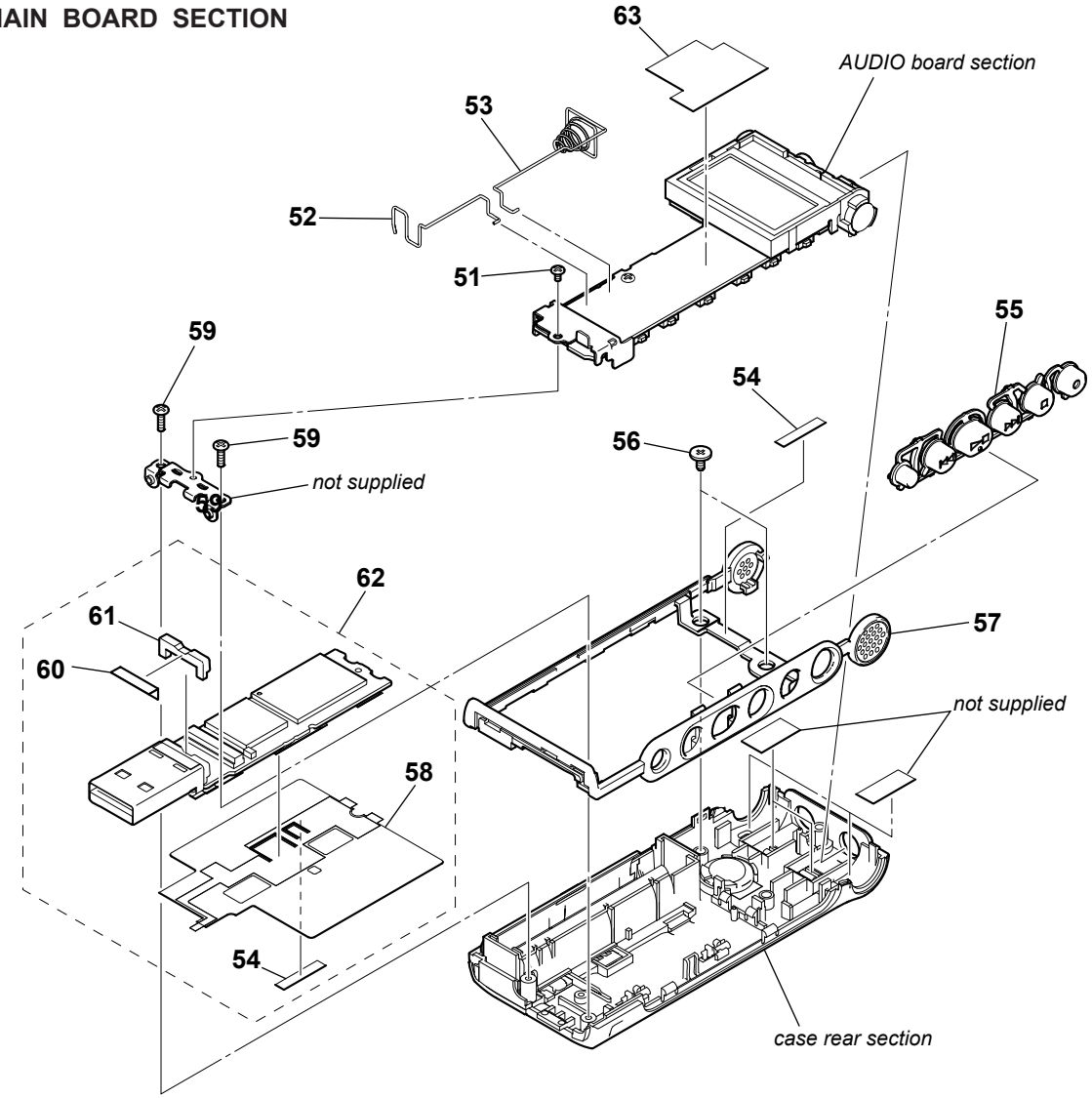
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories are given in the last of the electrical parts list.
- Abbreviation
  CH : Chinese model
  KR : Korean model
  LA : Latin American model

5-1. CASE FRONT SECTION



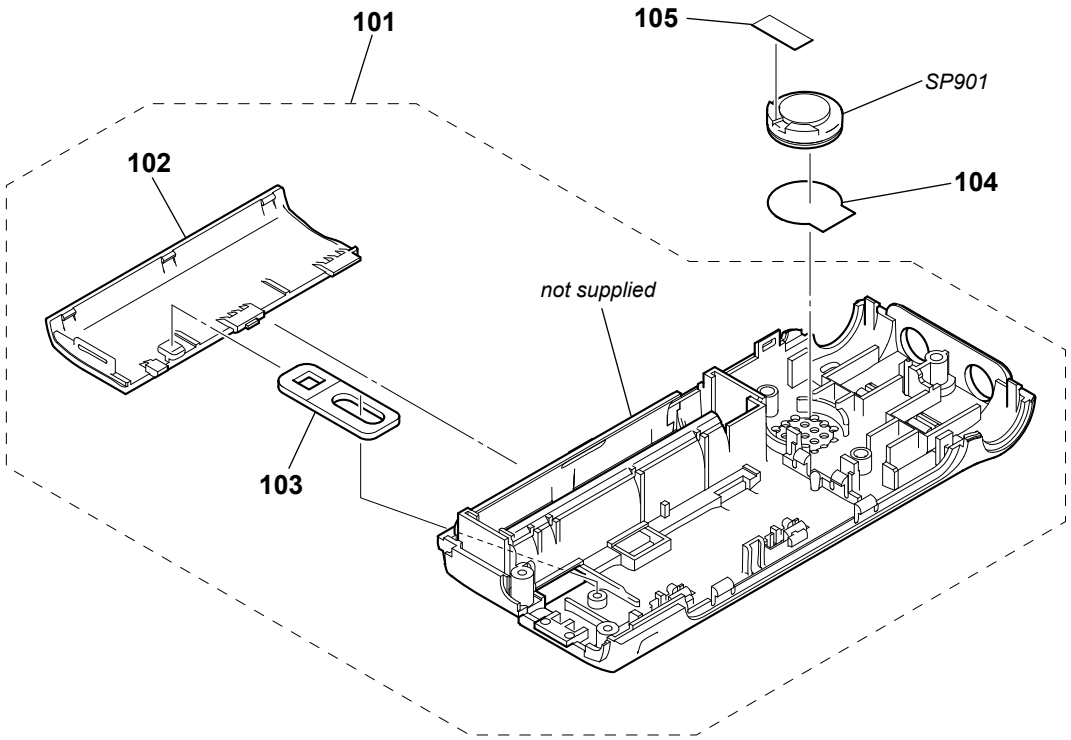
Ref. No.	Part No.	Description	Remark
1	A-1565-719-A	CASE (FSE) ASSY (SILVER)...(SILVER)	
1	A-1567-152-A	CASE (FBE) ASSY (BLACK)...(BLACK)	
1	A-1567-157-A	CASE (FRE) ASSY (RED)...(RED)	
1	A-1567-167-A	CASE (FPE) ASSY (PINK)...(PINK)	
1	A-1567-541-A	CASE (FWE) ASSY (WHITE)...(WHITE)	
2	3-254-137-01	SCREW (1.4) (SILVER)...(SILVER,WHITE,PINK)	
2	3-254-137-11	SCREW (1.4) (BLACK)...(BLACK,RED)	
3	3-269-993-01	COVER (USB) (GRAY)...(SILVER)	
3	3-269-993-11	COVER (USB) (BLACK)...(BLACK)	
3	3-269-993-21	COVER (USB) (RED)...(RED)	
3	3-269-993-31	COVER (USB) (PINK)...(PINK)	
3	3-269-993-41	COVER (USB) (WHITE)...(WHITE)	
4	3-234-449-09	SCREW (M1.4) (BLACK)...(BLACK,RED)	
4	3-234-449-11	SCREW (M1.4) (SILVER)...(SILVER,WHITE,PINK)	
5	A-1566-586-A	CAP (AS) ASSY (SILVER)...(SILVER)	
5	A-1566-587-A	CAP (AW) ASSY (WHITE)...(WHITE)	
5	A-1566-588-A	CAP (AP) ASSY (PINK)...(PINK)	
5	A-1566-589-A	CAP (AB) ASSY (BLACK)...(BLACK)	
5	A-1566-590-A	CAP (AR) ASSY (RED)...(RED)	

5-2. MAIN BOARD SECTION



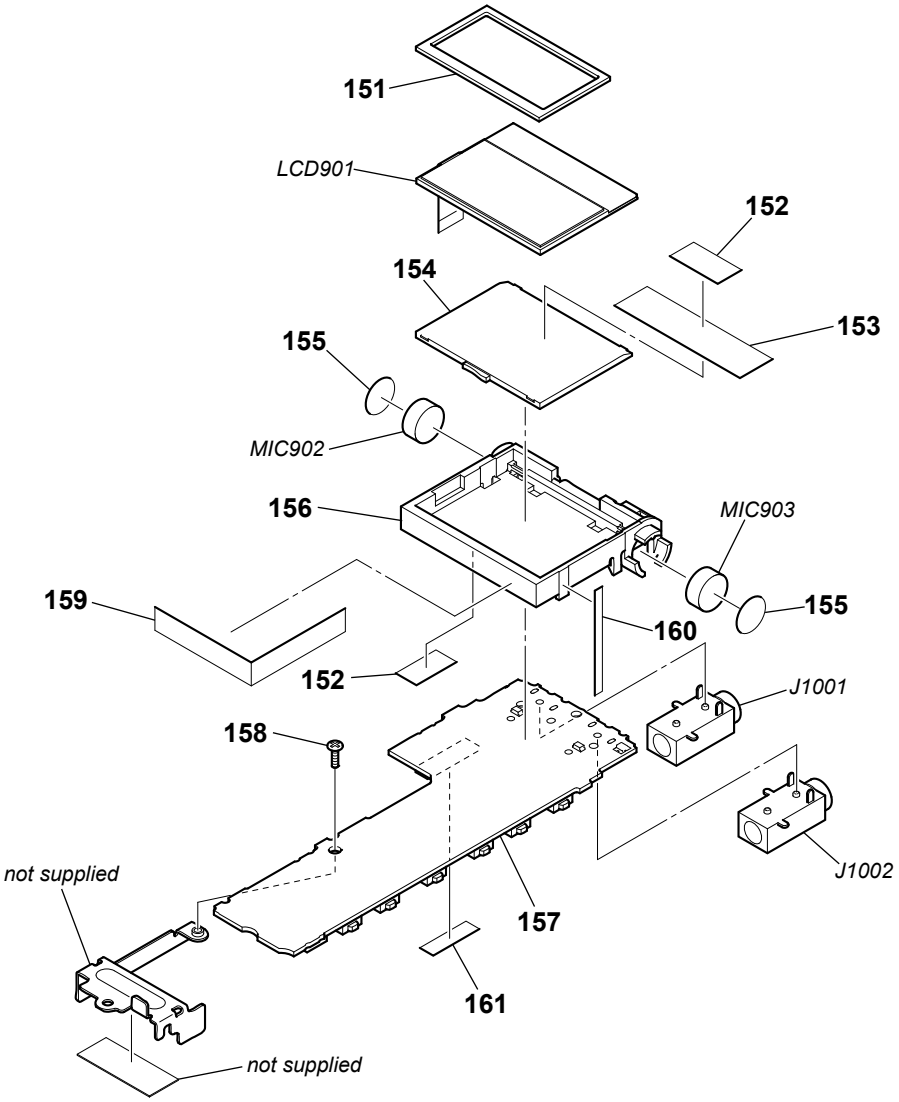
Ref. No.	Part No.	Description	Remark
51	3-234-449-11	SCREW (M1.4)	
52	3-270-025-01	TERMINAL (+), BATTERY (EXCEPT LA)	
52	3-270-025-11	TERMINAL (+), BATTERY (LA)	
53	4-112-936-01	TERMINAL (–), BATTERY (EXCEPT LA)	
53	4-112-936-11	TERMINAL (–), BATTERY (LA)	
54	2-671-980-01	SHEET (XTAL), INSULATING	
55	3-269-995-21	BUTTON (SIDE)	
56	2-548-944-01	SCREW, TAPPING (B1.4)	
57	3-269-992-21	STRIP, ORNAMENTAL	
58	4-126-025-01	SHEET (MAIN), COPPER LEAF	
59	3-254-136-11	SCREW (B1.4)	
60	3-286-614-01	SHEET, ADHESIVE	
61	3-282-027-01	SPACER (USB)	
62	X-2342-829-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX91F:CH)
62	X-2342-830-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX91F:E)
62	X-2342-831-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX91F:KR)
62	X-2342-833-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX81:AEP)
62	X-2342-834-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX81F:CH)
62	X-2342-835-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX81F:E)
62	X-2342-836-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX81F:KR)
62	X-2342-844-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX81:LA)
62	X-2342-845-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX81F:LA)
62	X-2342-850-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX71:AEP)
62	X-2342-851-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX71F:CH)
62	X-2342-852-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX71F:E)
62	X-2342-853-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX71F:KR)
62	X-2342-854-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX71F:AEP)
62	X-2342-857-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX71:LA)
62	X-2342-858-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX71F:LA)
62	X-2342-874-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX81F:AEP)
63	4-121-969-01	SHEET (TACT)	

5-3. CASE REAR SECTION



Ref. No.	Part No.	Description	Remark
101	A-1565-721-A	CASE (RWC9) SUB ASSY (WHITE)...(WHITE)	(UX91F:CH)
101	A-1565-731-A	CASE (RSC8) SUB ASSY (SILVER)...(SILVER)	(UX81F:CH)
101	A-1565-736-A	CASE (RSC7) SUB ASSY (SILVER)...(SILVER)	(UX71F:CH)
101	A-1567-154-A	CASE (RBC9) SUB ASSY (BLACK)...(BLACK)	(UX91F:CH)
101	A-1567-159-A	CASE (RWC8) SUB ASSY (WHITE)...(WHITE)	(UX81F:CH)
101	A-1567-163-A	CASE (RBC8) SUB ASSY (BLACK)...(BLACK)	(UX81F:CH)
101	A-1567-166-A	CASE (RPC8) SUB ASSY (PINK)...(PINK)	(UX81F:CH)
101	A-1567-170-A	CASE (RBC7) SUB ASSY (BLACK)...(BLACK)	(UX71F:CH)
101	A-1567-175-A	CASE (RBE9) SUB ASSY (BLACK)...(BLACK)	(UX91F:E,KR)
101	A-1567-214-A	CASE (RRE9) SUB ASSY (RED)...(RED)	(UX91F:E)
101	A-1567-227-A	CASE (RS77) SUB ASSY (SILVER)...(SILVER)	(UX71:AEP)
101	A-1567-239-A	CASE (RP7F7) SUB ASSY (PINK)...(PINK)	(UX71F:AEP,LA)
101	A-1567-249-A	CASE (RSE8) SUB ASSY (SILVER)...(SILVER)	(UX81F:E,KR)
101	A-1567-254-A	CASE (RPE8) SUB ASSY (PINK)...(PINK)	(UX81F:E)
101	A-1567-260-A	CASE (RB78) SUB ASSY (BLACK)...(BLACK)	(UX81:AEP)
101	A-1567-268-A	CASE (RR7F8) SUB ASSY (RED)...(RED)	(UX81F:AEP,LA)
101	A-1567-304-A	CASE (RSE7) SUB ASSY (SILVER)...(SILVER)	(UX71F:E,KR,LA)
101	A-1567-317-A	CASE (RB77) SUB ASSY (BLACK)...(BLACK)	(UX71:AEP)
101	A-1567-543-A	CASE (RWE7) SUB ASSY (WHITE)...(WHITE)	(UX71F:E)
101	A-1567-551-A	CASE (RBL8) SUB ASSY (BLACK)...(BLACK)	(UX81:LA)
101	A-1567-558-A	CASE (RRL8) SUB ASSY (RED)...(RED)	(UX81:LA)
101	A-1567-608-A	CASE (RBLF8) SUB ASSY (BLACK)...(BLACK)	(UX81F:LA)
101	A-1567-631-A	CASE (RSL7) SUB ASSY (SILVER)...(SILVER)	(UX71:LA)
101	A-1567-636-A	CASE (RPL7) SUB ASSY (PINK)...(PINK)	(UX71:LA)
101	A-1602-745-A	CASE (RRC8) SUB ASSY (RED)...(RED)	(UX81F:CH)
101	A-1602-748-A	CASE (RWC7) SUB ASSY (WHITE)...(WHITE)	(UX71F:CH)
102	3-269-991-41	LID, BATTERY CASE (BLACK)...(BLACK)	
102	3-269-991-51	LID, BATTERY CASE (SILVER)...(SILVER)	
102	3-269-991-61	LID, BATTERY CASE (WHITE)...(WHITE)	
102	3-269-991-71	LID, BATTERY CASE (PINK)...(PINK)	
102	3-269-991-81	LID, BATTERY CASE (RED)...(RED)	
103	3-270-028-01	HINGE (BATTERY CASE LID)	(GRAY)...(SILVER,WHITE,PINK)
103	3-270-028-11	HINGE (BATTERY CASE LID)	(BLACK)...(BLACK,RED)
104	2-667-105-01	SHEET (SPEAKER)	
105	2-671-980-01	SHEET (XTAL), INSULATING	
SP901	1-858-154-11	LOUD SPEAKER (1cm)	

5-4. AUDIO BOARD SECTION



Ref. No.	Part No.	Description	Remark
151	3-270-003-01	CUSHION (LCD)	
152	3-286-614-01	SHEET, ADHESIVE	
153	3-270-005-01	SHEET (LIGHT GUIDE PLATE)	
154	3-270-004-01	PLATE, LIGHT GUIDE	
155	3-096-796-01	NET (MICROPHONE S)	
156	3-270-001-01	HOLDER (LCD)	
157	A-1565-362-A	AUDIO BOARD, COMPLETE (UX71:AEP/UX81:AEP)	
157	A-1565-700-A	AUDIO BOARD, COMPLETE (UX71F:EXCEPT LA/UX81F:EXCEPT LA/UX91F)	
157	A-1565-702-A	AUDIO BOARD, COMPLETE (UX71:LA/UX81:LA)	
157	A-1567-613-A	AUDIO BOARD, COMPLETE (UX71F:LA/UX81F:LA)	
158	3-234-449-11	SCREW (M1.4)	
159	3-283-506-01	SHEET (LCD HOLDER)	
160	3-035-166-21	SPACER (LCD)	
161	2-671-980-01	SHEET (XTAL), INSULATING	
J1001	1-822-040-31	JACK (🎧)	
J1002	1-822-040-21	JACK (🎤)	
LCD901	1-802-574-21	DISPLAY PANEL, LIQUID CRYSTAL	
MIC902	1-542-785-11	MICROPHONE, ELECTRET CELECTRET (L-CH)	
MIC903	1-542-785-11	MICROPHONE, ELECTRET CELECTRET (R-CH)	

SECTION 6
ELECTRICAL PARTS LIST

AUDIO

Note:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
  uF: μF
- COILS
  uH: μH
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA. . : μA. . , uPA. . , μPA. . ,
  uPB. . : μPB. . , uPC. . , μPC. . ,
  uPD. . : μPD. .
- Abbreviation
  CH : Chinese model
  KR : Korean model
  LA : Latin American model

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
	A-1565-362-A	AUDIO BOARD, COMPLETE			(UX71:AEP/UX81:AEP)
	A-1565-700-A	AUDIO BOARD, COMPLETE			(UX71F:EXCEPT LA/UX81F:EXCEPT LA/UX91F)
	A-1565-702-A	AUDIO BOARD, COMPLETE (UX71:LA/UX81:LA)			
	A-1567-613-A	AUDIO BOARD, COMPLETE			(UX71F:LA/UX81F:LA)
		**********			
		< CAPACITOR >			
C1000	1-164-931-11	CERAMIC CHIP	100PF	10%	50V
C1001	1-164-931-11	CERAMIC CHIP	100PF	10%	50V
C1002	1-100-415-11	CERAMIC CHIP	0.47uF	10%	6.3V
C1003	1-100-415-11	CERAMIC CHIP	0.47uF	10%	6.3V
C1004	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C1005	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1006	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C1007	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C1008	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C1010	1-100-661-11	TANTAL. CHIP	100uF	20%	4V
C1011	1-100-661-11	TANTAL. CHIP	100uF	20%	4V
C1017	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1018	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C1020	1-112-692-11	CERAMIC CHIP	0.001uF	5%	50V
C1021	1-112-717-11	CERAMIC CHIP	1uF	10%	6.3V
C1022	1-112-717-11	CERAMIC CHIP	1uF	10%	6.3V
C1023	1-112-717-11	CERAMIC CHIP	1uF	10%	6.3V
C1024	1-112-717-11	CERAMIC CHIP	1uF	10%	6.3V
C1025	1-165-887-11	CERAMIC CHIP	0.22uF	10%	6.3V
C1027	1-165-887-11	CERAMIC CHIP	0.22uF	10%	6.3V
C1030	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C1031	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C1032	1-112-717-11	CERAMIC CHIP	1uF	10%	6.3V (UX71F/UX81F/UX91F)
C1033	1-112-717-11	CERAMIC CHIP	1uF	10%	6.3V (UX71F/UX81F/UX91F)
C1035	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C1036	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1037	1-112-717-11	CERAMIC CHIP	1uF	10%	6.3V
C1038	1-112-717-11	CERAMIC CHIP	1uF	10%	6.3V
C1039	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1040	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1041	1-112-717-11	CERAMIC CHIP	1uF	10%	6.3V
C1042	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V
C1043	1-112-717-11	CERAMIC CHIP	1uF	10%	6.3V
C1044	1-164-931-11	CERAMIC CHIP	100PF	10%	50V
C1045	1-165-887-11	CERAMIC CHIP	0.22uF	10%	6.3V

Ref. No.	Part No.	Description			Remark
C1046	1-165-887-11	CERAMIC CHIP	0.22uF	10%	6.3V
C1048	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1053	1-164-931-11	CERAMIC CHIP	100PF	10%	50V (UX71F/UX81F/UX91F)
C1054	1-164-931-11	CERAMIC CHIP	100PF	10%	50V (UX71F/UX81F/UX91F)
C1055	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V (UX71F/UX81F/UX91F)
C1056	1-164-860-11	CERAMIC CHIP	27PF	5%	50V (UX71F/UX81F/UX91F)
C1058	1-164-866-11	CERAMIC CHIP	47PF	5%	50V (UX71F/UX81F/UX91F)
C1059	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V (UX71F/UX81F/UX91F)
C1060	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V (UX71F/UX81F/UX91F)
C1061	1-100-966-11	CERAMIC CHIP	10uF	20%	10V (UX71F/UX81F/UX91F)
C1064	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V (UX71F/UX81F/UX91F)
C2000	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V (EXCEPT LA)
C2002	1-100-415-11	CERAMIC CHIP	0.47uF	10%	6.3V (EXCEPT LA)
C2005	1-137-934-11	TANTAL. CHIP	47uF	20%	10V
C2006	1-137-934-11	TANTAL. CHIP	47uF	20%	10V
C2007	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C2009	1-100-966-11	CERAMIC CHIP	10uF	20%	10V (EXCEPT LA)
C2010	1-114-176-21	TANTAL. CHIP	47uF	20%	10V
C2011	1-114-176-21	TANTAL. CHIP	47uF	20%	10V
C2014	1-112-717-11	CERAMIC CHIP	1uF	10%	6.3V
C2015	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C2018	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2020	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V (EXCEPT LA)
C2022	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V (EXCEPT LA)
C2023	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2024	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C2026	1-164-858-11	CERAMIC CHIP	22PF	5%	50V
C2028	1-164-848-11	CERAMIC CHIP	8PF	0.5PF	50V
C2029	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C2031	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2034	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2035	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2036	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2037	1-114-176-21	TANTAL. CHIP	47uF	20%	10V

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Ref. No.	Part No.	Description	Remark
C2038	1-112-717-11	CERAMIC CHIP 1uF 10% 6.3V	(UX71F/UX81F/UX91F)
C2044	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C2045	1-125-889-11	CERAMIC CHIP 2.2uF 10% 10V	(EXCEPT LA)
C2046	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C2047	1-112-717-11	CERAMIC CHIP 1uF 10% 6.3V	(EXCEPT LA)
C2048	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C2049	1-100-966-11	CERAMIC CHIP 10uF 20% 10V	
C2050	1-164-943-81	CERAMIC CHIP 0.01uF 10% 16V	
C3002	1-100-539-11	TANTAL. CHIP 47uF 20% 6.3V	
C3003	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C4002	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C4003	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C4004	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C4005	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C4006	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C4007	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C4008	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C4009	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C4010	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C4011	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C4012	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C4013	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C4014	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C4015	1-112-717-11	CERAMIC CHIP 1uF 10% 6.3V	
		< DIODE >	
D1000	8-719-083-04	DIODE RSB6.8STE61	
D1001	8-719-083-04	DIODE RSB6.8STE61	
D1002	8-719-083-04	DIODE RSB6.8STE61 (UX71F/UX81F/UX91F)	
D1003	8-719-083-04	DIODE RSB6.8STE61 (UX71F/UX81F/UX91F)	
D1007	8-719-083-04	DIODE RSB6.8STE61	
D1008	8-719-083-04	DIODE RSB6.8STE61	
D1012	6-502-162-01	DIODE RN262CST2R (UX71F/UX81F/UX91F)	
D1014	8-719-820-41	DIODE 1SS302	
D1015	6-500-314-01	DIODE DAN222MT2L	
D2000	6-502-324-01	DIODE DA221M-T2L (EXCEPT LA)	
D2003	8-719-069-28	DIODE 1SS400TE-61	
D2004	8-719-069-28	DIODE 1SS400TE-61	
D2008	6-500-314-01	DIODE DAN222MT2L	
D2009	8-719-081-34	DIODE RB160M-30TR	
D2010	8-719-069-28	DIODE 1SS400TE-61	
D2011	8-719-069-28	DIODE 1SS400TE-61	
D3000	8-719-069-28	DIODE 1SS400TE-61	
D4000	6-500-781-01	LED SML-521MUW (OPR)	
D4004	6-502-197-01	LED SML-D12M8WT86SM (LCD BACK LIGHT)	
D4005	6-502-197-01	LED SML-D12M8WT86SM (LCD BACK LIGHT)	
		< FERRITE BEAD >	
FB1002	1-400-461-21	FERRITE, EMI (SMD) (1005)	
FB1003	1-400-461-21	FERRITE, EMI (SMD) (1005)	
FB1004	1-400-461-21	FERRITE, EMI (SMD) (1005)	
FB1005	1-400-461-21	FERRITE, EMI (SMD) (1005)	
FB1006	1-400-684-21	INDUCTOR, FERRITE BEAD	
FB1007	1-400-684-21	INDUCTOR, FERRITE BEAD	
FB1008	1-400-684-21	INDUCTOR, FERRITE BEAD	(UX71F/UX81F/UX91F)
FB1010	1-400-461-21	FERRITE, EMI (SMD) (1005)	
FB1011	1-400-684-21	INDUCTOR, FERRITE BEAD	
FB1012	1-400-684-21	INDUCTOR, FERRITE BEAD	
FB1013	1-400-461-21	FERRITE, EMI (SMD) (1005)	(UX71F/UX81F/UX91F)
		< IC >	
IC1001	6-713-563-01	IC AK4645EZ-L	
IC1002	6-713-511-01	IC LV24230LS-TLM-E (UX71F/UX81F/UX91F)	
IC1003	6-707-110-01	IC LM4916LDX/NOPB	
IC1004	6-704-927-01	IC SN74LVC2G66YZPR (UX71F/UX81F/UX91F)	
IC2001	6-713-494-01	IC PST8408UL	
IC2002	6-711-822-01	IC TK77335AM4	
IC2003	6-713-522-01	IC XC9128D45CDR	
IC2004	6-713-488-01	IC LTC3526LEDC	
IC2005	6-713-507-01	IC XC9226A18CMR (EXCEPT LA)	
IC2007	6-713-367-01	IC MM3273BURE	
IC2008	6-713-491-01	IC MM3272JURE	
IC2012	6-713-523-01	IC MM3273AURE	
IC2013	6-707-702-01	IC NJM2746RB1(TE2) (EXCEPT LA)	
IC3000	6-711-104-01	IC RTC-4574NB	
		< COIL >	
L1000	1-412-032-11	INDUCTOR 100uH	
L1001	1-412-032-11	INDUCTOR 100uH	
* L1002	1-481-103-21	INDUCTOR 4.7uH (UX71F/UX81F/UX91F)	
* L1005	1-481-102-21	INDUCTOR 10uH	
L1006	1-481-537-21	INDUCTOR 2.2uH (UX71F/UX81F/UX91F)	
* L1007	1-481-103-21	INDUCTOR 4.7uH (UX71F/UX81F/UX91F)	
L1008	1-218-953-11	METAL CHIP 1K 5% 1/16W	(UX71F/UX81F/UX91F)
L2000	1-456-499-11	COIL, CHOKE 4.7uH	
L2001	1-456-499-11	COIL, CHOKE 4.7uH	
L2002	1-481-535-11	INDUCTOR 4.7uH (EXCEPT LA)	
		< TRANSISTOR >	
Q1000	6-552-120-01	FET US6K4TR	
Q1002	6-551-346-01	FET LSK3541FS8T2L (UX71F/UX81F/UX91F)	
Q1004	6-552-120-01	FET US6K4TR (UX71F/UX81F/UX91F)	
Q2001	6-551-202-01	FET LM6K1FS8T2R (EXCEPT LA)	
Q2002	6-552-115-01	FET 2SJ0674G0LS0	
Q2003	6-551-916-01	FET EM6M1T2R (EXCEPT LA)	
Q2005	6-552-124-01	FET RZF030P01TL (EXCEPT LA)	
Q2007	6-551-202-01	FET LM6K1FS8T2R	
Q2009	6-551-346-01	FET LSK3541FS8T2L	
Q2013	6-551-202-01	FET LM6K1FS8T2R	
Q2014	6-550-364-01	TRANSISTOR 2SD2652T106	
Q2015	6-552-120-01	FET US6K4TR	
Q2016	6-552-115-01	FET 2SJ0674G0LS0 (UX71F/UX81F/UX91F)	
Q2017	6-552-122-01	FET RUF025N02TL (EXCEPT LA)	
Q2018	6-552-122-01	FET RUF025N02TL	
Q2019	6-551-346-01	FET LSK3541FS8T2L (EXCEPT LA)	
Q4002	6-551-925-01	FET INK0002AT2-T111A-1	
Q4003	6-550-239-01	TRANSISTOR DTA144EMFS6T2L	
Q4004	6-551-202-01	FET LM6K1FS8T2R	
		< RESISTOR >	
R1000	1-218-990-81	SHORT CHIP 0	
R1001	1-218-990-81	SHORT CHIP 0	
R1002	1-218-990-81	SHORT CHIP 0	
R1003	1-218-985-11	METAL CHIP 470K 5% 1/16W	
R1004	1-218-985-11	METAL CHIP 470K 5% 1/16W	
R1005	1-218-985-11	METAL CHIP 470K 5% 1/16W	
R1006	1-218-977-11	METAL CHIP 100K 5% 1/16W	

Ref. No.	Part No.	Description			Remark
R1007	1-218-985-11	METAL CHIP	470K	5%	1/16W
R1010	1-218-985-11	METAL CHIP	470K	5%	1/16W
R1011	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R1012	1-240-726-11	METAL CHIP	470K	5%	1/20W
R1013	1-240-703-11	METAL CHIP	4.7K	5%	1/20W
R1014	1-218-953-11	METAL CHIP	1K	5%	1/16W
R1015	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R1016	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R1017	1-218-985-11	METAL CHIP	470K	5%	1/16W
R1021	1-218-989-11	METAL CHIP	1M	5%	1/16W
R1022	1-218-985-11	METAL CHIP	470K	5%	1/16W
R1025	1-245-551-11	METAL CHIP	2.2	5%	1/20W
R1027	1-240-718-11	METAL CHIP	100K	5%	1/20W
R1029	1-240-729-11	METAL CHIP	1M	5%	1/20W
R1030	1-244-161-81	METAL CHIP	2.2	5%	1/16W
R1032	1-218-967-11	METAL CHIP	15K	5%	1/16W
R1033	1-218-967-11	METAL CHIP	15K	5%	1/16W
R1036	1-218-981-11	METAL CHIP	220K	5%	1/16W
R1040	1-240-718-11	METAL CHIP	100K	5%	1/20W
R1041	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1044	1-218-990-81	SHORT CHIP	0 (UX71/UX81)		
R1045	1-218-990-81	SHORT CHIP	0 (UX71/UX81)		
R1050	1-218-973-11	METAL CHIP	47K	5%	1/16W
R1051	1-218-973-11	METAL CHIP	47K	5%	1/16W
R1052	1-218-973-11	METAL CHIP	47K	5%	1/16W
R1056	1-244-161-81	METAL CHIP	2.2	5%	1/16W
R1057	1-244-161-81	METAL CHIP	2.2	5%	1/16W
R1058	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1060	1-218-990-81	SHORT CHIP	0		
R1061	1-218-990-81	SHORT CHIP	0		
R1062	1-218-953-11	METAL CHIP	1K	5%	1/16W (UX71F/UX81F/UX91F)
R1062	1-218-990-81	SHORT CHIP	0 (UX71/UX81)		
R1063	1-218-953-11	METAL CHIP	1K	5%	1/16W (UX71F/UX81F/UX91F)
R1063	1-218-990-81	SHORT CHIP	0 (UX71/UX81)		
R1064	1-218-973-11	METAL CHIP	47K	5%	1/16W
R1065	1-218-973-11	METAL CHIP	47K	5%	1/16W
R1066	1-218-990-81	SHORT CHIP	0		
R1069	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1070	1-218-990-81	SHORT CHIP	0		
R1074	1-218-990-81	SHORT CHIP	0		
R1078	1-218-957-11	METAL CHIP	2.2K	5%	1/16W (UX71F/UX81F/UX91F)
R1079	1-218-949-11	METAL CHIP	470	5%	1/16W
R1080	1-218-957-11	METAL CHIP	2.2K	5%	1/16W (UX71F/UX81F/UX91F)
R1081	1-218-953-11	METAL CHIP	1K	5%	1/16W (UX71F/UX81F/UX91F)
R1082	1-218-977-11	METAL CHIP	100K	5%	1/16W (UX71F/UX81F/UX91F)
R1083	1-218-977-11	METAL CHIP	100K	5%	1/16W (UX71F/UX81F/UX91F)
R1085	1-218-977-11	METAL CHIP	100K	5%	1/16W (UX71F/UX81F/UX91F)
R1086	1-218-985-11	METAL CHIP	470K	5%	1/16W (UX71F/UX81F/UX91F)
R1089	1-245-551-11	METAL CHIP	2.2	5%	1/20W
R1090	1-245-551-11	METAL CHIP	2.2	5%	1/20W
R1091	1-218-990-81	SHORT CHIP	0		
R1094	1-218-990-81	SHORT CHIP	0 (UX71F/UX81F/UX91F)		
R1095	1-218-990-81	SHORT CHIP	0 (UX71F/UX81F/UX91F)		
R1096	1-218-985-11	METAL CHIP	470K	5%	1/16W
R1097	1-218-990-81	SHORT CHIP	0		
R1098	1-218-990-81	SHORT CHIP	0		
R1099	1-218-990-81	SHORT CHIP	0		
R2000	1-218-965-11	METAL CHIP	10K	5%	1/16W (EXCEPT LA)
R2002	1-218-989-11	METAL CHIP	1M	5%	1/16W
R2003	1-218-989-11	METAL CHIP	1M	5%	1/16W (EXCEPT LA)
R2004	1-218-985-11	METAL CHIP	470K	5%	1/16W (EXCEPT LA)
R2007	1-218-989-11	METAL CHIP	1M	5%	1/16W (EXCEPT LA)
R2009	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2011	1-218-985-11	METAL CHIP	470K	5%	1/16W
R2015	1-218-990-81	SHORT CHIP	0 (EXCEPT LA)		
R2016	1-218-977-11	METAL CHIP	100K	5%	1/16W
R2017	1-218-969-11	METAL CHIP	22K	5%	1/16W
R2018	1-218-973-11	METAL CHIP	47K	5%	1/16W
R2019	1-218-953-11	METAL CHIP	1K	5%	1/16W (EXCEPT LA)
R2020	1-218-969-11	METAL CHIP	22K	5%	1/16W (EXCEPT LA)
⚠ R2021	1-248-085-21	FUSIBLE CHIP	0.22	5%	1/10W F (EXCEPT LA)
R2022	1-218-977-11	METAL CHIP	100K	5%	1/16W
R2023	1-218-953-11	METAL CHIP	1K	5%	1/16W (EXCEPT LA)
R2024	1-218-969-11	METAL CHIP	22K	5%	1/16W (EXCEPT LA)
R2025	1-218-953-11	METAL CHIP	1K	5%	1/16W (EXCEPT LA)
R2026	1-208-699-11	METAL CHIP	4.7K	0.5%	1/16W (EXCEPT LA)
R2027	1-218-990-81	SHORT CHIP	0		
R2028	1-208-935-11	METAL CHIP	100K	0.5%	1/16W (EXCEPT LA)
R2029	1-208-943-11	METAL CHIP	220K	0.5%	1/16W (EXCEPT LA)
R2030	1-208-931-11	METAL CHIP	68K	0.5%	1/16W (EXCEPT LA)
R2031	1-208-885-11	METAL CHIP	820	0.5%	1/16W (EXCEPT LA)
R2032	1-218-977-11	METAL CHIP	100K	5%	1/16W
R2034	1-208-683-11	METAL CHIP	1K	0.5%	1/16W (EXCEPT LA)
R2038	1-218-989-11	METAL CHIP	1M	5%	1/16W
R2039	1-218-985-11	METAL CHIP	470K	5%	1/16W
R2040	1-218-977-11	METAL CHIP	100K	5%	1/16W
R2044	1-208-947-11	METAL CHIP	330K	0.5%	1/16W
R2045	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R2046	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R2049	1-208-943-11	METAL CHIP	220K	0.5%	1/16W
R2050	1-208-715-11	METAL CHIP	22K	0.5%	1/16W
R2053	1-218-985-11	METAL CHIP	470K	5%	1/16W
R2055	1-218-989-11	METAL CHIP	1M	5%	1/16W
R2057	1-218-953-11	METAL CHIP	1K	5%	1/16W
R2058	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R2065	1-218-977-11	METAL CHIP	100K	5%	1/16W (UX71F/UX81F/UX91F)
R2073	1-218-985-11	METAL CHIP	470K	5%	1/16W (EXCEPT LA)
R2074	1-218-945-11	METAL CHIP	220	5%	1/16W (EXCEPT LA)

AUDIO **MAIN**

Ref. No.	Part No.	Description			Remark
R2076	1-218-977-11	METAL CHIP	100K	5%	1/16W (EXCEPT LA)
R2076	1-218-990-81	SHORT CHIP	0 (LA)		
R3004	1-218-965-11	METAL CHIP	10K	5%	1/16W
R3006	1-218-941-81	METAL CHIP	100	5%	1/16W
R3013	1-218-990-81	SHORT CHIP	0		
R3014	1-218-981-11	METAL CHIP	220K	5%	1/16W
R3015	1-218-977-11	METAL CHIP	100K	5%	1/16W
R4000	1-218-989-11	METAL CHIP	1M	5%	1/16W
R4001	1-218-965-11	METAL CHIP	10K	5%	1/16W
R4002	1-218-989-11	METAL CHIP	1M	5%	1/16W
R4003	1-218-965-11	METAL CHIP	10K	5%	1/16W
R4004	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R4005	1-218-953-11	METAL CHIP	1K	5%	1/16W
R4006	1-218-953-11	METAL CHIP	1K	5%	1/16W
R4008	1-218-949-11	METAL CHIP	470	5%	1/16W
R4009	1-218-953-11	METAL CHIP	1K	5%	1/16W
R4010	1-218-953-11	METAL CHIP	1K	5%	1/16W
R4011	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R4012	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R4013	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R4014	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R4015	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R4016	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R4017	1-218-965-11	METAL CHIP	10K	5%	1/16W
R4018	1-218-965-11	METAL CHIP	10K	5%	1/16W
R4019	1-218-989-11	METAL CHIP	1M	5%	1/16W
R4021	1-218-969-11	METAL CHIP	22K	5%	1/16W
R4022	1-218-969-11	METAL CHIP	22K	5%	1/16W
R4025	1-218-929-11	METAL CHIP	10	5%	1/16W
R4028	1-218-965-11	METAL CHIP	10K	5%	1/16W
R4033	1-218-985-11	METAL CHIP	470K	5%	1/16W
R4034	1-218-977-11	METAL CHIP	100K	5%	1/16W
R4035	1-218-990-81	SHORT CHIP	0		
R4036	1-218-990-81	SHORT CHIP	0		
		< SWITCH >			
S4000	1-786-723-11	SWITCH, TACTILE (■)			
S4001	1-786-914-31	SWITCH, TACTILE (MENU)			
S4002	1-786-723-11	SWITCH, TACTILE (I◀◀)			
S4004	1-786-723-11	SWITCH, TACTILE (▶▶I)			
S4005	1-786-723-11	SWITCH, TACTILE (●)			
S4006	1-786-723-11	SWITCH, TACTILE (►■)			
S4007	1-786-723-11	SWITCH, TACTILE (↻ A-B)			
S4009	1-786-914-31	SWITCH, TACTILE (DIVIDE)			
S4010	1-786-914-31	SWITCH, TACTILE (–)			
S4011	1-786-914-31	SWITCH, TACTILE (+)			
S4012	1-786-914-31	SWITCH, TACTILE (▼)			
S4013	1-786-914-31	SWITCH, TACTILE (▲)			
S4014	1-786-914-31	SWITCH, TACTILE (ENT)			

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Ref. No.	Part No.	Description	Remark
	X-2342-829-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX91F:CH)
	X-2342-830-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX91F:E)
	X-2342-831-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX91F:KR)
	X-2342-833-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX81:AEP)
	X-2342-834-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX81F:CH)
	X-2342-835-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX81F:E)
	X-2342-836-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX81F:KR)
	X-2342-844-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX81:LA)
	X-2342-845-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX81F:LA)
	X-2342-850-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX71:AEP)
	X-2342-851-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX71F:CH)
	X-2342-852-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX71F:E)
	X-2342-853-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX71F:KR)
	X-2342-854-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX71F:AEP)
	X-2342-857-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX71:LA)
	X-2342-858-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX71F:LA)
	X-2342-874-1	MAIN BOARD, COMPLETE (for SERVICE)	(UX81F:AEP)
	**********		
	2-671-980-01	SHEET (XTAL), INSULATING	
	3-282-027-01	SPACER (USB)	
	3-286-614-01	SHEET, ADHESIVE	
	4-126-025-01	SHEET (MAIN), COPPER LEAF	

< CAPACITOR >

C5000	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5001	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C5002	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5003	1-114-169-21	TANTAL. CHIP	220uF	20%	4V
C5004	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5005	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5007	1-164-848-11	CERAMIC CHIP	8PF	0.5PF	50V
C5008	1-164-848-11	CERAMIC CHIP	8PF	0.5PF	50V
C5009	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V (EXCEPT LA)
C5011	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5012	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5016	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5021	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5022	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5025	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5027	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5032	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5033	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5034	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5035	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5037	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V

MAIN

Ref. No.	Part No.	Description			Remark
C5038	1-164-840-11	CERAMIC CHIP	1PF	0.25PF	50V
C6000	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C6001	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C7000	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C7001	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C7002	1-112-717-11	CERAMIC CHIP	1uF	10%	6.3V
C8000	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C8001	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C8002	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C8003	1-100-966-11	CERAMIC CHIP	10uF	20%	10V
C8004	1-112-717-11	CERAMIC CHIP	1uF	10%	6.3V
C8013	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C8014	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C8015	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
		< CONNECTOR >			
CN8001	1-820-426-11	CONNECTOR, USB 4P (USB)			
CN8002	1-817-951-21	CONNECTOR, BOARD TO BOARD 60P			
		< DIODE >			
D8001	6-501-400-01	DIODE RB161VA-20			
D8002	6-501-983-01	DIODE CDZT2R12B			
		< FILTER >			
FL5001	1-234-939-21	FILTER, EMI REMOVAL (SMD)			
		< IC >			
IC5000	6-713-360-01	IC PST8209UL			
IC5001	(Not supplied)	IC LC823403B-08B-E			
IC5002	6-713-490-01	IC PST8227UL			
IC5003	6-713-521-01	IC XC6213B152GR			
IC6000	(Not supplied)	IC M29W160ET70ZA6E			
IC7000	(Not supplied)	IC K9LBG08U0M-PCB0T (UX91F)			
IC7000	(Not supplied)	IC K9GAG08U0M-PCB0T (UX81/UX81F)			
IC7000	(Not supplied)	IC HY27UT088G2A-TPCBDR (UX71/UX71F)			
IC8000	6-713-489-01	IC MM3271FURE			
IC8001	6-713-505-01	IC XC6221B102NR			
		< COIL >			
L5002	1-481-408-21	INDUCTOR 220nH			
LF8001	1-457-223-11	COIL, COMMON MODE CHOKE			
		< TRANSISTOR >			
Q5001	6-551-346-01	FET LSK3541FS8T2L			
Q5002	6-551-346-01	FET LSK3541FS8T2L			
Q5004	6-551-346-01	FET LSK3541FS8T2L			
Q5005	6-552-115-01	FET 2SJ0674G0LS0 (EXCEPT LA)			
		< RESISTOR >			
R5000	1-218-989-11	METAL CHIP	1M	5%	1/16W
R5002	1-208-935-11	METAL CHIP	100K	0.5%	1/16W (EXCEPT LA)
R5003	1-208-883-81	METAL CHIP	680	0.5%	1/16W
R5006	1-208-663-11	METAL CHIP	150	0.5%	1/16W
R5008	1-218-985-11	METAL CHIP	470K	5%	1/16W
R5011	1-218-969-11	METAL CHIP	22K	5%	1/16W
R5012	1-218-990-81	SHORT CHIP	0		
R5014	1-218-989-11	METAL CHIP	1M	5%	1/16W
R5017	1-208-663-11	METAL CHIP	150	0.5%	1/16W
R5018	1-218-989-11	METAL CHIP	1M	5%	1/16W

Ref. No.	Part No.	Description			Remark
R5020	1-218-929-11	METAL CHIP	10	5%	1/16W
R5021	1-218-989-11	METAL CHIP	1M	5%	1/16W
R5024	1-218-949-11	METAL CHIP	470	5%	1/16W
R5025	1-218-929-11	METAL CHIP	10	5%	1/16W
R5026	1-218-929-11	METAL CHIP	10	5%	1/16W
R5028	1-218-949-11	METAL CHIP	470	5%	1/16W
R5030	1-218-985-11	METAL CHIP	470K	5%	1/16W
R5034	1-218-977-11	METAL CHIP	100K	5%	1/16W
R5038	1-218-973-11	METAL CHIP	47K	5%	1/16W
R5039	1-218-977-11	METAL CHIP	100K	5%	1/16W
R5040	1-218-985-11	METAL CHIP	470K	5%	1/16W
R5041	1-218-989-11	METAL CHIP	1M	5%	1/16W
R5048	1-218-985-11	METAL CHIP	470K	5%	1/16W
R5066	1-218-985-11	METAL CHIP	470K	5%	1/16W
R5070	1-218-985-11	METAL CHIP	470K	5%	1/16W
R5071	1-218-977-11	METAL CHIP	100K	5%	1/16W
R5072	1-218-990-81	SHORT CHIP	0		
R5075	1-218-990-81	SHORT CHIP	0		
R6000	1-218-989-11	METAL CHIP	1M	5%	1/16W
R6001	1-218-989-11	METAL CHIP	1M	5%	1/16W
R6002	1-218-989-11	METAL CHIP	1M	5%	1/16W
R6003	1-218-989-11	METAL CHIP	1M	5%	1/16W
R7001	1-218-985-11	METAL CHIP	470K	5%	1/16W
R7011	1-218-985-11	METAL CHIP	470K	5%	1/16W
R7012	1-218-977-11	METAL CHIP	100K	5%	1/16W
R8000	1-218-989-11	METAL CHIP	1M	5%	1/16W
R8001	1-218-989-11	METAL CHIP	1M	5%	1/16W
R8020	1-218-989-11	METAL CHIP	1M	5%	1/16W
		< NETWORK RESISTOR >			
RB5001	1-234-383-21	RES, NETWORK 470KX4 (1005)			
RB7001	1-234-383-21	RES, NETWORK 470KX4 (1005)			
RB7002	1-234-383-21	RES, NETWORK 470KX4 (1005)			
RB7003	1-234-383-21	RES, NETWORK 470KX4 (1005)			
		< SWITCH >			
S8000	1-771-449-11	SWITCH, SLIDE (DPC)			
S8001	1-572-922-11	SWITCH, SLIDE (HOLD)			
		< THERMISTOR >			
TH5000	1-805-194-21	THERMISTOR, NTC (SMD) (EXCEPT LA)			
		< VIBRATOR >			
X5000	1-814-216-11	VIBRATOR, CRYSTAL (12MHz)			

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MISCELLANEOUS

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J1001	1-822-040-31	JACK (🎧)
J1002	1-822-040-21	JACK (🎤)
LCD901	1-802-574-21	DISPLAY PANEL, LIQUID CRYSTAL
MIC902	1-542-785-11	MICROPHONE, ELECTRET CELECTRET (L-CH)
MIC903	1-542-785-11	MICROPHONE, ELECTRET CELECTRET (R-CH)
SP901	1-858-154-11	LOUD SPEAKER (1cm)

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When IC5001, IC6000 and IC7000 on the Main board are damaged, exchange the new Main board for the Main board which IC damaged.

Ref. No.	Part No.	Description	Remark
		ACCESSORIES	
		**********	
	1-542-783-21	HEADPHONE (MDR-E706I) (SILVER)...(SILVER,BLACK,RED)	
	1-542-783-31	HEADPHONE (MDR-E706I) (WHITE)...(WHITE,PINK)	
	1-834-557-21	CABLE, USB CONNECTION SUBSIDIA	
	4-112-934-01	CASE (BATTERY) (for RECHARGEABLE BATTERY) (EXCEPT LA)	
	4-114-023-11	MANUAL, INSTRUCTION (ENGLISH) (LA)	
	4-114-023-31	MANUAL, INSTRUCTION (SPANISH) (LA)	
	4-114-023-41	MANUAL, INSTRUCTION (ENGLISH) (AEP,E)	
	4-114-023-51	MANUAL, INSTRUCTION (ENGLISH) (KR)	
	4-114-023-61	MANUAL, INSTRUCTION (KOREAN) (KR)	
	4-114-023-71	MANUAL, INSTRUCTION (ENGLISH) (CH)	
	4-114-023-81	MANUAL, INSTRUCTION (SIMPLIFIED CHINESE) (CH)	
	4-114-026-11	MANUAL (QSG), INSTRUCTION (ENGLISH, FRENCH,SPANISH,DUTCH) (AEP,E)	
	4-114-026-21	MANUAL (QSG), INSTRUCTION (SWEDISH, PORTUGUESE,GERMAN,ITALIAN) (AEP)	
	4-114-026-31	MANUAL (QSG), INSTRUCTION (RUSSIAN, POLISH,UKRAINIAN,GREEK) (AEP)	
	4-114-026-41	MANUAL (QSG), INSTRUCTION (CZECH, TURKISH,HUNGARIAN) (AEP)	
	4-114-026-51	MANUAL (QSG), INSTRUCTION (SIMPLIFIED CHINESE, TRADITIONAL CHINESE,KOREAN,ARABIC) (E)	
	4-115-655-01	CD-ROM INSTRUCTION MANUAL PDF (AEP,E)	
	4-119-977-01	CASE, CARRYING (BLACK)...(SILVER,BLACK,RED)	
	4-119-977-11	CASE, CARRYING (GRAY)...(WHITE,PINK)	

MEMO

REVISION HISTORY

Checking the version allows you to jump to the revised page.
Also, clicking the version at the top of the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2008.10	New